Yahoo Group Archive: AT_Sprint (2012 — 2013)

Yahoo Group summary: AT Sprint

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2018. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2012-01-01 through 2013-12-30

Source WARC: at_sprint.3j9YU1Y.warc.gz

Source item: https://archive.org/details/yahoo-groups-2018-01-26T16-01-38Z-3cb13e

Messages included in this PDF: 4379

Messages omitted as spam from this PDF: 6

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

7857. Re: [AT_Sprint] power output ... ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-01 04:39:44 UTC
From: nicehouse101@yahoo.com
Topic: 7840 Message: 7857

Hey DALE ....You are the best..... And I wish to thank you for all that you have given me. The top grade ATS3B you gave me..... From your heart.....You put your heart and soul into it.
All the Keys out there.....Dale helped me out
Tonight you need to run the Junkers. I gave you as a gift....I dont think the schurr from grandpa would work.
Cheating.....LOL HI HI..... Beats a vibroplex buy far. And that italian thingy...We all know what I am talking about. Dale gets a bravo Zulu..... 73..... Raymond.

From: Dale Putnam <daleputnam@hotmail.com>
To: AT Sprint <at_sprint@yahoogroups.com>
Sent: Friday, December 30, 2011 7:01 PM
Subject: RE: [AT_Sprint] power output ... ATS4B

Hank you have it, Fred.. if you want the most effecient tx to be used even just occasionally at full power.. the finals will extend their life for you, if you optimize the power vs current using 12v as a supply. Then drop to a 9v supply for normal ops, and you'll find around 3.5 watt out, easily.. and it is fun to "blow" the other S meter harder with the extra power if you just have to.
  The main difference is the effeciency at what voltage and results in a difference in current... with it tuned at 9 volts.. the max current for the finals occurs quicker... life is too short for that. (Finals life)...
Happy New Year.

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: n8xx@...g
Date: Fri, 30 Dec 2011 21:53:17 -0500
Subject: Re: [AT_Sprint] power output ... ATS4B

Fred:

I believe, but I could be wrong, that tuning for maximum efficiency (or maximum power output) for a 9 volt power supply would NOT be the same as tuning the output filters for maximum efficiency (or maximum power output) for a 12 volt (nominal) power supply.

At least, that's what I understand from what I learned from building rigs back in the tube daze. Would not 3 watts out with 9 volt collector voltage present a different impedance to the input of a filter than 5 watts out with a 12 volt collector supply? This is just a gut feeling since I haven't done any calculations, and would have to consult several books to figure out how to go about such a solution. So, those more skilled in the art of impedance matching networks are left to a rigorous solution.

72/73 de n8xx Hg

On 12/30/2011 9:24 PM, Fred Maas wrote:

Aw, Merc,
>
>Regardless of what power level one runs this rig, it is appropriate to have it tuned properly. AFTER it is optimized, one can choose how hard to push it, or not, by choosing the voltage.
>
>QRP is great fun and a great challenge. Life is too long for QRO. DXCC in an evening is EZ.
>
>QRP qualifications: I worked DXCC on forty meters running two watts with a NorCal 40, from New Mexico, in two and a half months, DXCC 10 through 40 mtrs - QRP, and 284 countries - QRP. I am the only person to work all continents, QRP, on 160 meters.
>
>Back to the point; I'll take Carey's suggestions. He really knows what he is doing with these rigs!!!
>
>TNX, Fred - KT5X
>
>W5YA / qrp
>
>WS0TA / SOTA peaks
>See my comment about AT-Sprint series rigs. I've been VERY happy running 3 watts to my AT-Sprint original version, using 6 AA Alkaline cells for power.
>
>As WC7S about how he tunes up a rig. He tuned up mine for me!
>
>Oh, yes, and I made ~ 197 Q's on 160 during the recent ARRL 160 contest, using 5 watts and a cloud warmer antenna, 155 Q's on ARRL 10 M CW contest with a low wire antenna, 115 Q's SOSB 10 metres during CQ WW DX CW contest. All were part time.
>
>Note, I didn't use the AT-Sprint for any of these, but it amazes me what a 'mere' 5 watts and a wet noodle antenna can do against the 'big boys' in a 'real' contest.
>
>72/73 de n8xx Hg
>
>On 12/30/2011 8:49 PM, WA0ITP wrote:
>
>

7858. RE: [AT_Sprint] power output ... ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-01 05:23:09 UTC
From: Dale Putnam
Topic: 7840 Message: 7858

I have been using the Junkers.. it works sweet.. my fist isn't so great.. but the key is fine...
and you're welcome Ray,
I'll be on most all day tomorrow, with each of the AT radios, from the Sprint through the 4b... and an HW8 and a pair of Heath twins too. All qrp, all keyed with the Junkers.
Thank you Ray,

Happy New Year to each of you, may it be a Better Year for us all.
--... ...--
Dale - WC7S in Wy

7859. Re: [AT_Sprint] power output ... ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-01 06:27:50 UTC
From: nicehouse101@yahoo.com
Topic: 7840 Message: 7859

No..... Thank you.....73.....:)111111

From: Dale Putnam <daleputnam@...>
To: AT Sprint <at_sprint@yahoogroups.com>
Sent: Saturday, December 31, 2011 9:23 PM
Subject: RE: [AT_Sprint] power output ... ATS4B

I have been using the Junkers.. it works sweet.. my fist isn't so great.. but the key is fine...
and you're welcome Ray,
I'll be on most all day tomorrow, with each of the AT radios, from the Sprint through the 4b... and an HW8 and a pair of Heath twins too. All qrp, all keyed with the Junkers.
Thank you Ray,

Happy New Year to each of you, may it be a Better Year for us all.
--... ...-- Dale - WC7S in Wy

7860. Re: power output ... ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-01 08:19:28 UTC
From: Scott Cowling
Topic: 7860 Message: 7860

Just got done with the ATS-4B on the 29th, and had a great SKN QSO for 30 minutes on a 9V battery!!! Try that with any other QRP rig and see how long it goes... Thanks, Steve, for a great rig!

At Fred's encouragement, I measured my power output and current draw on each band. This is straight off the bench, with the coils wound as close to evenly spaced as I could get them. No tuning yet!

(I had to build my NorCal QRP wattmeter so I could get these "highly accurate" readings. :-) This was a fun weekend!)

ATS-4B power out and current in @12VDC input voltage:
80M - 5.7W @ 600mA
40M - 5.7W @ 700mA
30M - 5.1W @ 580mA
20M - 4.8W @ 800mA
17M - 4.3W @ 500mA

ATS-4B power out and input voltage on 9V battery (no current measurements)
80M - 1.8W @ 8.3V
40M - 1.8W @ 8.3V
30M - 1.7W @ 8.2V
20M - 1.7W @ 8.5V
17M - 1.6W @ 8.5V

Looks like I might get some benefit on 40M and 20M by tweaking the coils, since the current seems a bit high for the power output.

73 es HNY,
Scotty WA2DFI

7861. ATS4A keyer memory spacing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-01 20:57:29 UTC
From: K
Topic: 7861 Message: 7861

The morse spacing using the keyer memories on my ATS4A has always sounded to me like there is too much space between letters and words. Today I spent a little time looking at the firmware. I think I see the problem, but I would appreciate it if someone who knows this stuff better than me would verify this. I have not yet installed the programming header on my ATS4A, nor have I put together the parallel port programming interface, so this is all academic at this point.

First, it looks to me that the keyer memories correctly add a dot space between elements, but add 3 additional dot spaces between letters so that instead of the usual 3 dot lengths between letters there are 4 dot lengths. The relevant code is

```
msp1: bic #FL_SIDETONE,&flags
clr r5
ms_lp: cmp.b #3,r5
jne ms_lp
jmp mrs_lp3

mrs_ext: clr r5
m_exls: cmp.b #9,r5
jne m_exls
bit #FLB_KEEPMUTE,&bflag jc mrs_lp7
bis.b #PO_MUTE ;unmute
mrs_lp7: ret
```

It looks to me like the msp1: labeled instructions with the ms_lp1: cmp.b #3,r5 instruction give a dot space after the character.

The mrs_ext: instructions at the end of a character with the m_exls:
cmp.b #9,r5 instruction give 3 additional dot spaces. I think this
instruction should be changed to cmp.b #6,r5, so that the total letter
space is 3 dot spaces. The word space instruction is similar. It is

```
kwds: clr r5
kwdslp: cmp #0015h,r5
jne kwdslp
jmp kmelp3
```

The hex 15h is 21 which gives 7 dot spaces. This would be correct except that now there are already 4 dot spaces after the letter giving 11 total. Instead, I think the instruction should be changed to cmp #0012h,r5, which along with the letter space change above will give the correct 7 dot space total.

As far as I can see there aren't any side effects from making these changes. Could someone please verify this, if possible?

Thanks and 73,
Kevin w9cf

7862. Re: [AT_Sprint] ATS4A keyer memory spacing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-01 21:13:41 UTC
From: Colin Tuckley
Topic: 7861 Message: 7862

On Sun, Jan 1, 2012 at 8:57 PM, K <w9cf@...> wrote:

> The morse spacing using the keyer memories on my ATS4A has always sounded
> to me like there is too much space between letters and words. Today I spent
> a little time looking at the firmware. I think I see the problem, but I
> would appreciate it if someone who knows this stuff better than me would
> verify this.

I did some work on the ATS-3B firmware last year so I just had a look at
that.

The code is the same, I suspect that Steve just copied it for each new
design, so it's probably wrong on all of them.

> As far as I can see there aren't any side effects from making these
> changes. Could someone please verify this, if possible?
>

I'll take a closer look over the next few days unless Steve comments first.

Colin G8TMV

--
Colin Tuckley | colintu@... | +44(0)7799 143369
PGP/GnuPG Key Id: 0x1B3045CE

7863. Re: [AT_Sprint] ATS4A keyer memory spacing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-01 22:50:25 UTC
From: Steven Weber
Topic: 7861 Message: 7863

> The morse spacing using the keyer memories on my ATS4A has always sounded
> to me like there is too much space between letters and words. Today I
> spent a little time looking at the firmware. I think I see the

Humm, it seems you are correct, I forgot to include the inherent dot space added to the end of each element for spacing. The changes you propose would fix the letter and word spacing, but I kinda think having the slightly longer space between letter and words isn't a bad thing and am inclined to leave it as it is.

Steve

7864. RE: [AT_Sprint] ATS4A keyer memory spacing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-01 23:59:16 UTC
From: Dale Putnam
Topic: 7861 Message: 7864

I've found the extra spacings allow for poor conditions, better than close spacings... and slower spacings are faster... in poor conditions, requiring fewer requests for repeats. Guess it all depends on what or how you are using your radio.

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Sun, 1 Jan 2012 17:50:25 -0500
Subject: Re: [AT_Sprint] ATS4A keyer memory spacing

> The morse spacing using the keyer memories on my ATS4A has always sounded

> to me like there is too much space between letters and words. Today I

> spent a little time looking at the firmware. I think I see the

Humm, it seems you are correct, I forgot to include the inherent dot space

added to the end of each element for spacing. The changes you propose would

fix the letter and word spacing, but I kinda think having the slightly

longer space between letter and words isn't a bad thing and am inclined to

leave it as it is.

Steve

7865. Re: ATS4A keyer memory spacing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-02 00:41:45 UTC
From: K
Topic: 7861 Message: 7865

Steve,
Thanks for the quick response. It's a matter of taste. I like the shorter spaces partly because it matches my keying style. In any case, the only way my ATS4A will get changed is if I do it. I really appreciate it that you have included the firmware source, and that the board has the programming header connections. I hope that I can download the firmware without issues.
73 and thanks again,
Kevin w9cf

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:

>
> Humm, it seems you are correct, I forgot to include the inherent dot space
> added to the end of each element for spacing. The changes you propose would
> fix the letter and word spacing, but I kinda think having the slightly
> longer space between letter and words isn't a bad thing and am inclined to
> leave it as it is.
>
> Steve
>

7866. Pedestrian mobile reboot of ATS-3

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-02 00:54:15 UTC
From: wa5bdu
Topic: 7866 Message: 7866

I was trying out a /PM arrangement as part of SKN today. I have a helical hamstick type antenna clamped to a backpack with a 16' trailing wire, for 20 meters. I'd checked earlier with the MFJ259B and the SWR is 2:1 or so minimum.

When I tried keying, the rig would immediately reboot on the initial key closure. I thought the SWR might have caused excess current draw, but it also could be the proximity of the antenna's field to the power, key, and earphone cords.

I tried using a 9V battery instead of the 12V AGM and that cured the problem. But I want full output in this compromise situation.

Tried a FT114-43 toroid with about 8 turns of the power cord through it as an RF choke. That did help but there were still enough reboots to prevent a QSO. I then tried chokes on the key and earphone leads as well and things seemed to get worse.

My next attempt will be to hook the counterpoise to the Altoids case instead of the base of the antenna (there's a pretty good coil of coax between the two). I may shorten some leads too.

My rig does seem to have the "reboot" mod: R22 is 270 ohms.

Any other ideas?

72,

Nick, WA5BDU

7867. T-Network Ant-Simulator

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-02 11:41:25 UTC
From: Fred
Topic: 7867 Message: 7867

While Kevin, W9CF is looking for an improved ATS keyer firmware
I am looking for some help with his excellent T-Tuner Simulator
published on his homepage
http://fermi.la.asu.edu/w9cf/tuner/tuner.html
This ufb simulator uses real knobs and a SWR Meter and helps
an oldtimer as well as a newcomer to understand antenna tuning
without Smith Chart reading.
I would very much appreciate to simulate a pi-Network too but I
regret not being familiar with Java Programming - the source code
is also included on Kevin's homepage.
So I ask if Kevin or any one may help me - mni tnx es hny 2012
Fred, DJ3KK

7868. Re: [AT_Sprint] Re: ATS4A keyer memory spacing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-02 12:20:36 UTC
From: K1jdjohn
Topic: 7861 Message: 7868

While we are on the subject of the ATS-4A, I'm building it now. Can anyone please confirm that the 3-lead IC near the D1 label, present in the board photo on page 19 and labeled WV4 on page 18, has been eliminated from the final design? I'm reasonably sure it is since there's no reference in the parts list.
73/HNY
John K1JD

On Jan 1, 2012, at 7:41 PM, "K" <w9cf@....asu.edu> wrote:

> Steve,
> Thanks for the quick response. It's a matter of taste. I like the shorter spaces partly because it matches my keying style. In any case, the only way my ATS4A will get changed is if I do it. I really appreciate it that you have included the firmware source, and that the board has the programming header connections. I hope that I can download the firmware without issues.
> 73 and thanks again,
> Kevin w9cf
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> >
> > Humm, it seems you are correct, I forgot to include the inherent dot space
> > added to the end of each element for spacing. The changes you propose would
> > fix the letter and word spacing, but I kinda think having the slightly
> > longer space between letter and words isn't a bad thing and am inclined to
> > leave it as it is.
> >
> > Steve
> >
>
>

7869. Re: [AT_Sprint] ATS4A keyer memory spacing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-02 19:33:17 UTC
From: Michael Harnage
Topic: 7861 Message: 7869

The delay for the space between letters is cumulative not additive. In other words it's not 1+3 dit spaces. It's 3 dit spaces. R5 is only cleared once at the beginning of the space...

The word spacing is a little more complicated to follow but does appear that it adds an additional 7 in addition to the 3 already there after the last letter. So if you wanted you could change the word space to add 4 dit spaces vice 7.

-mike/w1mt

>_____
> From: K <w9cf@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Sunday, January 1, 2012 3:57 PM
>Subject: [AT_Sprint] ATS4A keyer memory spacing
>
>The morse spacing using the keyer memories on my ATS4A has always sounded to me like there is too much space between letters and words.
>

7870. Re: [AT_Sprint] ATS4A keyer memory spacing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-02 19:48:34 UTC
From: Michael Harnage
Topic: 7861 Message: 7870

I think this might work to change word the timing properly... (it should make the delay cumulative versus additive)

```
kwds:
kwdslp:  cmp    #0015h,r5
          jne    kwdslp
          jmp    kmelp3
```

VICE

```
>_________________________________
>
>kwds:    clr    r5
>kwdslp:  cmp    #0015h,r5
>          jne    kwdslp
>          jmp    kmelp3
>
>
```

7871. QRP ARCI contests/events scheduled for January, 2012

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-03 16:54:29 UTC
From: James Rodenkirch
Topic: 7871 Message: 7871

So, 2012 is here and there are two events during the month of January::

First
off is the 2012 QRP ARCI PET ROCK CELEBRATION this coming Saturday, 7 January, 2012 from 1500Z to 1800Z on 7 January 2012. Mode of operation is CW and the exchange is: Members send: RST, State/Province/Country, ARCI member number while Non-Members send: RST, State/Province/Country, Power Out

Dust off those xtal-controlled rigs and get in on this
neat, fun event. There are bonus points for xtal-controlled rigs so visit www.qrparci.org and click on the "QRP ARCI contest" link on the left to see the rules. If you're going to enter this event, or even if you aren't and are just "cruising around on the bands," please remember to visit the additional frequencies where rock-bound enthusiasts are hanging out these days, e.g., 7100 to 7125, as they sure would appreciate getting a chance to show off their rigs as well as gain experience via QSOs with us all!

Second is the 2012 QRP ARCI
Winter Fireside SSB Sprint that is scheduled for the 29th of January, 2012 from 2000Z to 2359Z. Mode of operation is SSB (I believe I have a microphone around here somewhere) and the exchange, for members is RS, State/Province/Country, ARCI member number while non-members send RS, State/Province/Country, Power Out

Again,
check the contest link at the web site for the "particulars" as there is a nice bonus point addition for operating portable! I'll be certain to wash my throat out with SOMETHING so I can join in the fun!

72, Jim Rodenkirch, K9JWV
QRP ARCI Contest Manager

7872. frequency at power up and DFE?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-04 01:35:37 UTC
From: ka1stz
Topic: 7872 Message: 7872

I'm just realizing I may have a problem with the 4b I recently assembled. It always powers up on the same freq for each band, even if I change freqs and power down, then turn it back on. The frequencies it starts on are 3592.850, 7098.250, 10152.600, 14113.550, or 21133.200, depending on the band selected. Nothing I do will change the start up freq. Also when going into DFE I can enter a freq fine, but I do not see the X, ST, or RE on the bottom line as described in the manual. ??? Thoughts?
Thanks! -Gerry

7873. Re: frequency at power up and DFE?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-04 04:25:33 UTC
From: rasteenb
Topic: 7872 Message: 7873

Hi Gerry:

My 4b behaves in exactly the same way.

In DFE mode:
Although the X, ST, RE labels don't appear on the display, the corresponding pushbuttons (FN, SP and down-arrow) work as they should.

As far as the frequency storage goes:
When I went through the calibration sequence, the frequencies were reset to the original QRP ones (7.030, 14,060, etc).

I have found that if I'm on 7.015 MHz and switch to 20m, then back to 40m, I end up back on 7.015. If I turn the rig off then back on, it's at 7.015. So, my solution has been to switch bands momentarily if I want to store a new frequency.

73,
Rob KA8JBY

--- In AT_Sprint@yahoogroups.com, "ka1stz" <ka1stz@...> wrote:
>
> I'm just realizing I may have a problem with the 4b I recently assembled. It always powers up on the same freq for each band, even if I change freqs and power down, then turn it back on. The frequencies it starts on are 3592.850, 7098.250, 10152.600, 14113.550, or 21133.200, depending on the band selected. Nothing I do will change the start up freq. Also when going into DFE I can enter a freq fine, but I do not see the X, ST, or RE on the bottom line as described in the manual. ??? Thoughts?
> Thanks! -Gerry
>

7874. ATS3-B output tweaking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-04 15:19:40 UTC
From: Fred Maas
Topic: 7874 Message: 7874

Built my ATS3B in 2007. Ignorantly, I thought when I peaked the variable caps that I had simultaneously peaked output. Not ;-) So over the last week, I have been tweaking toroids to optimize output on the ATS3B. Both Dale, WC7S, and Carey, KX0R, offered invaluable guidance in the process and without whom I would have gotten nowhere. I had no idea what the output was on any band before I started.

Input current was monitored with an ammeter (multi-meter) in line from battery. Output was monitored with an RF probe like that shown on the website of N5ESE. Coils were adjusted in small increments one coil at a time seeking to optimize output, while staying somewhat below 800 mA total current.

Most bands required LF2 toroid to be as compressed as possible, and LF1 to be as spread as possible. Output on various bands rose dramatically. 40 meters wound up the lowest at about 4.2 watts. Carey advised trying to slightly increase the capacitance of C2F. A 151 cap was tacked across the 681 cap on the 40 meter plug-in module, resulting in 830 pf, and the output jumped up in line with the output from the other bands.

So I am now entirely satisfied with the output of the ATS3B on all bands.

Note that the output stated is an estimate. The readings from the RF probe are not usable with the equations, likely detuned by impedances of the meter, and can be considered relative only. The readings were estimated using my Elecraft K3 as a "standard." It is likely the actual outputs are several tenths of a watt lower than that which is implied by the K3.

So called "1st teak" was improvement based solely upon current input. "2nd tweak" results were made by also observing actual output with the RF probe. As Steve said a few days ago, both need to be monitored to really do it right.

ATS3B at 12.1 volts ... the 3S LiPO battery is generally between 11.1 and 11.6 volts in field operation which is a half watt lower.

Band Before 1st tweak 2nd tweak % impr

80 2.5 W 4.0 W 5.0 W 100%

40 3.5 W 4.0 W 5.5 W 60%

30 2.0 W 4.8 W 5.6 W 175%

20 4.6 W 4.8 W 5.6 W 25%

17 4.3 W 4.3 W 5.0 W 16%

15 X 4.7 W 5.4 W (so detuned that it wasn't working)

73 Fred - KT5X

7875. Re: [AT_Sprint] Re: frequency at power up and DFE?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-04 16:24:50 UTC
From: Steven Weber
Topic: 7872 Message: 7875

Yes, at the last moment two bugs crept into the firmware which kept the labels for the switches in DFE mode from showing up and the other from restoring the last used frequency on power up.

The first bug was a result of my adding a command to clear line 3 of the display, but I put it in the wrong place, which resulted in the switch labels to be written to an address not visable on the display.

The second problem was caused by my removing some lines of code, as I was running out of program memory space and wanted to free up some space. At the time it seemed those lines of code were redundant, having forgoten exacty why they were there. The frequency is stored as it should be, it just isn't restored on power up, which is why if you power up on another band first, then switch back, that last used frequency now shows up.

I've since corrected these problems and will upload the revised firmware to the files section of the group soon.

72, Steve KD1JV

7876. Re: [AT_Sprint] Re: frequency at power up and DFE?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-04 16:35:07 UTC
From: Mike Swaney
Topic: 7872 Message: 7876

Hi Rob/Gerry:

My 4b behaves as Rob described for DFE and the frequency memory thing also caught my attention. Rereading Steve's User manual section several times and testing with a dummy load seemed to show that a band's frequency is stored for power-up recall only if something is sent. TUNE mode "use" does not count as sending. Hopefully this helps.

Mike KI8KF

--- On Tue, 1/3/12, rasteenb <rasteenb@...> wrote:

> From: rasteenb <rasteenb@...>
> Subject: [AT_Sprint] Re: frequency at power up and DFE?
> To: AT_Sprint@yahoogroups.com
> Date: Tuesday, January 3, 2012, 11:25 PM
> Hi Gerry:
>
> My 4b behaves in exactly the same way.
>
> In DFE mode:
> Although the X, ST, RE labels don't appear on the display,
> the corresponding pushbuttons (FN, SP and down-arrow) work
> as they should.
>
> As far as the frequency storage goes:
> When I went through the calibration sequence, the
> frequencies were reset to the original QRP ones (7.030,
> 14,060, etc).
>
> I have found that if I'm on 7.015 MHz and switch to 20m,
> then back to 40m, I end up back on 7.015. If I turn
> the rig off then back on, it's at 7.015. So, my
> solution has been to switch bands momentarily if I want to
> store a new frequency.
>
> 73,
> Rob KA8JBY
>
>
>
> --- In AT_Sprint@yahoogroups.com,
> "ka1stz" <ka1stz@...> wrote:
> >
> > I'm just realizing I may have a problem with the 4b I
> recently assembled. It always powers up on the same
> freq for each band, even if I change freqs and power down,

> then turn it back on. The frequencies it starts on are
> 3592.850, 7098.250, 10152.600, 14113.550, or 21133.200,
> depending on the band selected. Nothing I do will
> change the start up freq. Also when going into DFE I can
> enter a freq fine, but I do not see the X, ST, or RE on the
> bottom line as described in the manual.
> ??? Thoughts?
> > Thanks! -Gerry
> >
>
>
>
>
> ---
>
> Yahoo! Groups Links
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>
> AT_Sprint-fullfeatured@yahoogroups.com
>
>
>

7877. Re: frequency at power up and DFE?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-04 17:57:23 UTC
From: ka1stz
Topic: 7872 Message: 7877

Ah, good. I'm glad to hear it wasn't me screwing something up. :-)
Thanks!
-Gerry

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Yes, at the last moment two bugs crept into the firmware which kept the
> labels for the switches in DFE mode from showing up and the other from
> restoring the last used frequency on power up.
>
> The first bug was a result of my adding a command to clear line 3 of the
> display, but I put it in the wrong place, which resulted in the switch
> labels to be written to an address not visable on the display.
>
> The second problem was caused by my removing some lines of code, as I was
> running out of program memory space and wanted to free up some space. At the
> time it seemed those lines of code were redundant, having forgoten exacty
> why they were there. The frequency is stored as it should be, it just isn't
> restored on power up, which is why if you power up on another band first,
> then switch back, that last used frequency now shows up.
>
> I've since corrected these problems and will upload the revised firmware to
> the files section of the group soon.
>
> 72, Steve KD1JV
>

7878. ATS-4B files uploaded

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-05 18:15:27 UTC
From: Steven
Topic: 7878 Message: 7878

Gang,

I just uploaded some new files to a new folder named "ATS-4B" in the files section.

Assembly only instructions - has all the typos and little errors fixed for those who haven't started building yet.

Corrected schematic for the CPU section - this corrects the way the 3.3 V regulator is wired, which wasn't updated in the schematic sent with the kit.

ATS4B.s42 - Source code with the bug fixes.

72, Steve KD1JV

7879. New batch of ATS-4B now available

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-05 18:16:41 UTC
From: Steven
Topic: 7879 Message: 7879

I have a new batch of 48 ATS-4B kits available and ready to order now.

Steve

7880. Let The Fun Begin

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 03:23:39 UTC
From: dyarnes1
Topic: 7880 Message: 7880

I got an ATS4-B from the second batch, but I've been waiting to let some of the "errata" filter in. Decided it was time to start at least, since a lot of folks seem to be successfully up and going.

I'm fortunate to have a local ham friend (WR7A), who has a wonderful binocular microscope, and is also highly experienced with SMD stuff (He's an IBMer). I put together the ATS3, but a couple of those small IC's drove me nuts. So, with my friend's guidance, and a little spastic maneuvering coordinating hands and eyes through the microscope, I got the 3 smallest IC's mounted. Using a microscope is great, but takes a little getting used to. Anyway, those were the 3 parts I was dreading, but it went very well. I also got a lot of good advice from my friend about just how to attack these little devils. For one thing, I thought I had some pretty thin solder, but he's got some that is perfect! He also showed me a much better method of cleaning excess flux from the board, and that makes the process, and the result, look so much better. No real exotic tools, other than that wonderful microscope, but he says you can do just about as well with a good magnifying headset, which I have--an Optivisor, which is just about the same as the one he uses. Anyway, I'm a lot more confident now about mounting some of these really small IC's, so next time maybe I'll be less apprehensive. I still plan to let my friend critique the board when I get the rest of the SMD's installed. I don't expect to have too much difficulty with the rest of the parts, but it certainly never hurts to have an expert review your work.

By the way, when I was building the old ATS3, and having so much trouble with that really small IC, I happened to be talking to Dan Tayloe about it at an AZ ScQRPion meeting, and he suggested I just "slop" the solder on each side, then use solder removal braid, and a little flux, to "lift off" the excess solder. I was surprised how well that worked, but not as neatly as the method I used today with the microscope. Today, though, I think I learned a lot more about how to clean up the board properly afterwards. It's one thing to read about this stuff, but so much better to see it done properly by someone who really knows what he is doing!

I doubt I'll be through with this kit for a while yet. There are too many things on my "to do" list right now, but I'm sure looking forward to the process, particularly now that the "fear factor" has been substantially eliminated! Hi. The trick now is to keep SMD parts from flying off the workbench. Unfortunately, I know more than I wish I knew about that problem!

Dave W7AQK

7881. A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 04:53:13 UTC
From: rasteenb
Topic: 7881 Message: 7881

Hello:

So I want to build the cable to connect my ATS-4b to my computer so I can upgrade the firmware.

The DB25 end of the cable looks easy enough.

What about the other end?

Did you install male or female headers on the board?

What kind of connector did you put on the end of the cable?

Got any pictures?

Cheers,
Rob KA8JBY

7882. Re: [AT_Sprint] A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 05:10:29 UTC
From: Stephen Wandling
Topic: 7881 Message: 7882

Of course my iMac didn't have a DB25 connector (before it's recent demise, sniff, sniff), but neither does the windoz 7 box that has replaced it. My point being that there seems to be a need for migration away from the, fast becoming anachronistic, DB25?

72
Stephen
VE7NSD

On 05/01/2012 8:53 PM, rasteenb wrote:
> Hello:
>
> So I want to build the cable to connect my ATS-4b to my computer so I can upgrade the firmware.
>
> The DB25 end of the cable looks easy enough.
>
> What about the other end?
>
> Did you install male or female headers on the board?
>
> What kind of connector did you put on the end of the cable?
>
> Got any pictures?
>
> Cheers,
> Rob KA8JBY
>
>
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> Yahoo! Groups Links
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7883. Re: [AT_Sprint] A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 05:20:07 UTC
From: Paul Mateer
Topic: 7881 Message: 7883

usb to serial adapter.....

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

7884. Re: [AT_Sprint] A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 05:27:59 UTC
From: Rob Steenburgh
Topic: 7881 Message: 7884
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Stephen:

Yes, my little netbook doesn't have any DB25 hole either. Fortunately, I have a vintage Dell with one.

I have a MSP430 Launchpad development tool which uses a USB interface. Unfortunately, it doesn't support the MSP430F1232.

Fortunately, the MSP430F2132 is considered a "drop in" replacement (with caveats) for the older 1232 according to an application note I found (attached).

Unfortunately, according to the note:

"However there is no 28-pin DW (SOIC) package equivalent for the MSP430F12x(2) devices in the MSP430F21x2 device family. If the original design uses the 28-pin DW package, the PCB would need tobe migrated to use either the 28-pin TSSOP or the 32-pin QFN package variant of the MSP430F21x2"

Fortunately, I found a company called ACCUTEK which makes SOIC to SSOP adapters (brochure attached). I haven't investigated further.

That's as far as I've gotten.

73,
Rob

From: Stephen Wandling <swandling@...>
To: AT_Sprint@yahoogroups.com
Cc: rasteenb <rasteenb@yahoo.com>
Sent: Thursday, January 5, 2012 10:10 PM
Subject: Re: [AT_Sprint] A picture of the programming connection on the board?

Of course my iMac didn't have a DB25 connector (before it's recent
demise, sniff, sniff), but neither does the windoz 7 box that has
replaced it. My point being that there seems to be a need for migration
away from the, fast becoming anachronistic, DB25?

72
Stephen
VE7NSD

On 05/01/2012 8:53 PM, rasteenb wrote:
> Hello:
>
> So I want to build the cable to connect my ATS-4b to my computer so I can upgrade the firmware.

>
> The DB25 end of the cable looks easy enough.
>
> What about the other end?
>
> Did you install male or female headers on the board?
>
> What kind of connector did you put on the end of the cable?
>
> Got any pictures?
>
> Cheers,
> Rob KA8JBY
>
>
>
> ---
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> Yahoo! Groups Links
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>

7885. Re: [AT_Sprint] A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 06:01:36 UTC
From: Stephen Wandling
Topic: 7881 Message: 7885

As a Mac guy, currently stumbling around in a new jungle, is a serial connector 9 pin? I don't have the ATS-4, but my ATS3-B has 7 connection points for programming so I guess 9 would work. But wouldn't Steve, or someone, have to give instructions on making/wiring the cable?

Obviously this stuff is way outside my comfort zone.

72
Stephen
VE7NSD

On 05/01/2012 9:20 PM, Paul Mateer wrote:
> usb to serial adapter.....
>
>

7886. Re: [AT_Sprint] A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 08:51:58 UTC
From: Colin Tuckley
Topic: 7881 Message: 7886

On 1/6/12, Paul Mateer <paul.aa9gg@...> wrote:
> usb to serial adapter.....

NO! The the current programming interface uses the parallel interface on the PC (normally used to drive a printer). As people have said, these are becoming rare.

Unfortunately the system also uses the interface in "raw" mode which is not usually possible with the usb to parallel interfaces available. One option that will work is to fit a parallel interface to your desktop pc. These are available as PCIe or PCI cards which fit into the expansion slots on your motherboard.

One last comment, some laptops still have parallel ports, but many of them don't work properly in raw mode.

73

Colin G8TMV

--
Colin Tuckley | colintu@... | +44(0)7799 143369
PGP/GnuPG Key Id: 0x1B3045CE

7887. Re: [AT_Sprint] A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 12:06:30 UTC
From: Michael Harnage
Topic: 7881 Message: 7887

The programming cable Steve describes in the documentation is for a parallel port. Usb to parallel converters won't work. There is a USB programmer (TI or Olimex both make one), but it costs about $100. I'll stick with parallel myself. The 7-pin header on the board is a JTAG interface. You can leave them unpopulated and use a 7 pin connector on the cable. Just push the pins in the holes then remove when done. Sometimes you may have to apply a little side pressure to ensure good connections. I have noticed that I could not get the TI software to work on my 64 bit machine, so I use my older 32-bit machine to program ATS rigs. When my old computer stops working I'll probably break down and get the USB FET programmer (MSP-FET430UIF).

73 de w1mt/mike

>_____
>
>Hello:
>
>So I want to build the cable to connect my ATS-4b to my computer so I can upgrade the firmware.
>
>The DB25 end of the cable looks easy enough.
>
>What about the other end?
>
>Did you install male or female headers on the board?
>
>What kind of connector did you put on the end of the cable?
>
>Got any pictures?
>
>Cheers,
>Rob KA8JBY
>
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>Yahoo! Groups Links
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7888. Re: Let The Fun Begin

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 14:14:03 UTC
From: Fred Maas
Topic: 7880 Message: 7888

The trick now is to keep SMD parts from flying off the workbench. Unfortunately, I know more than I wish I knew about that problem!

Dave W7AQK

Have fun with it, Dave. It really is a nice kit. FWIW, I build on top of a large cookie sheet to hang on to the parts.

My ATS4B is having trouble on 15 and 20 mtrs. For yet unresolved reason, the current drawn is way high on these two bands even with low power out. Steve suggested that I check the soldering on U8. I reheated that one (twice) but no joy.

anyone else experiencing such???

73, Fred - kt5x

7889. Re: [AT_Sprint] A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 14:36:30 UTC
From: Paul Mateer
Topic: 7881 Message: 7889

I find it funny that the new technology of microprocessors requires
old pc technology to program them.... ;o)

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

7890. Re: [AT_Sprint] A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 14:53:52 UTC
From: Chris Fowler
Topic: 7881 Message: 7890

On Fri, 2012-01-06 at 08:36 -0600, Paul Mateer wrote:
> I find it funny that the new technology of microprocessors requires
> old pc technology to program them.... ;o)
>

No. I have USB programmers here. Those that do not wish to spend money on the new programmers and want to use old methods are stuck using old PC technology :0

I have serial programmers, USB programmers, and a full JTAG debugger that is USB.

73,
Chris k4fh

7891. Re: [AT_Sprint] A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 17:09:24 UTC
From: Michael Harnage
Topic: 7881 Message: 7891

Not really. Just the cheap ones of us (Of which I am one :)). The tech for USB programmers is there and available.

>_____
>
>I find it funny that the new technology of microprocessors requires
>old pc technology to program them.... ;o)
>
>

7892. Re: [AT_Sprint] A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 17:19:02 UTC
From: Paul Mateer
Topic: 7881 Message: 7892

I know...I work with design micro controllers for a living. My favorite programming interface is still my old parallel port one. Simple level convertor built into the db25 hood.

On Fri, Jan 6, 2012 at 11:09 AM, Michael Harnage <w1mt@...> wrote:

> **
>
>
> Not really. Just the cheap ones of us (Of which I am one :)). The tech
> for USB programmers is there and available.
>
> ----------
> **
> I find it funny that the new technology of microprocessors requires
> old pc technology to program them.... ;o)
>
>
>

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

7893. Re: ATS-4B files uploaded

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 19:02:18 UTC
From: dyarnes1
Topic: 7878 Message: 7893

Re the "bug fixes". So, is my microprocessor defective? I was part of the 2nd batch.

Dave W7AQK

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Gang,
>
> I just uploaded some new files to a new folder named "ATS-4B" in the files section.
>
> Assembly only instructions - has all the typos and little errors fixed for those who haven't started building yet.
>
> Corrected schematic for the CPU section - this corrects the way the 3.3 V regulator is wired, which wasn't updated in the schematic sent with the kit.
>
> ATS4B.s42 - Source code with the bug fixes.
>
> 72, Steve KD1JV
>

7894. Re: A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 22:09:28 UTC
From: Tim W4YN
Topic: 7881 Message: 7894

This is one reason I use Atom based PC with XP in shack!
Still come supplied with parallel and serial ports.
Tim W4YN

--- In AT_Sprint@...m, Paul Mateer <paul.aa9gg@...> wrote:
>
> I find it funny that the new technology of microprocessors requires
> old pc technology to program them.... ;o)
>
> --
> Paul Mateer, AA9GG
> Elan Engineering Corp.
> www.elanengr.com
> NAQCC 3123, SKCC 4628, FPQRP 2003
>

7895. Re: [AT_Sprint] Re: A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 22:26:49 UTC
From: Hank Greeb
Topic: 7881 Message: 7895

Will the programming program work with Windows 98? I have an olde laptop which has 133 MHz processor, 6.4 gig hard drive, 98 meg RAM, and a serial and parallel port. It doesn't have enough "ooommmppphhh" to run Windows XP.

72/73 de n8xx Hg

On 1/6/2012 5:09 PM, Tim W4YN wrote:
> This is one reason I use Atom based PC with XP in shack!
> Still come supplied with parallel and serial ports.
> Tim W4YN
>
> --- In AT_Sprint@yahoogroups.com, Paul Mateer<paul.aa9gg@...> wrote:
>> I find it funny that the new technology of microprocessors requires
>> old pc technology to program them.... ;o)
>>
>> --
>> Paul Mateer, AA9GG
>> Elan Engineering Corp.
>> www.elanengr.com
>> NAQCC 3123, SKCC 4628, FPQRP 2003

7896. Re: [AT_Sprint] Re: ATS-4B files uploaded

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 23:16:34 UTC
From: Steven Weber
Topic: 7878 Message: 7896

> Re the "bug fixes". So, is my microprocessor defective? I was part of
> the 2nd batch.

No, it's not defective, it's just that two minor things which should work, don't. 1., the last used frequency isn't restored when turning the rig back on and 2, in DFE mode, the characters which are normally written on the display to remind you what each switch does, aren't.

Steve

7897. Re: [AT_Sprint] Re: A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 23:23:09 UTC
From: Steven Weber
Topic: 7881 Message: 7897

Will the programming program work with Windows 98? I have an olde laptop which has 133 MHz processor, 6.4 gig hard drive, 98 meg RAM, and a serial and parallel port. It doesn't have enough "ooommmppphhh" to run Windows XP.

The IDE version installed with FET_R303 will work with Win95, 98 and XP. This is the version I use and is compatable with the project file included in the MPS folder.

Steve

7898. Re: [AT_Sprint] Re: A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 23:27:48 UTC
From: Hank Greeb
Topic: 7881 Message: 7898

Thanks, Steve:

On 1/6/2012 6:23 PM, Steven Weber wrote:
>
>
> Will the programming program work with Windows 98? I have an olde
> laptop which has 133 MHz processor, 6.4 gig hard drive, 98 meg RAM,
> and a serial and parallel port. It doesn't have enough "ooommmppphhh"
> to run Windows XP.
>
> The IDE version installed with FET_R303 will work with Win95, 98 and
> XP. This is the version I use and is compatable with the project file
> included in the MPS folder.
> Steve

7899. Re: [AT_Sprint] Re: A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-06 23:42:42 UTC
From: Gil WA5YKK
Topic: 7881 Message: 7899

Steve;

I'm taking a huge chance in this reply, but the only real "changes" from 98SE to today's whizz-bang OS that I've seen is to run more applications about the same time. I'm playing an "old" computer game on my XP based 'puter that did fine on 98SE, now I have only half the controls, strictly on the keyboard. With the size of memory you mention, I'd think that you might be safe, just give it a try.
Hoping that you and everyone can be spared the dizzy head and back pains of whatever bug or virus I seem to be struggling with, darn winter, though!

GL, 73's
Gil WA5YKK (50 + years & counting, will keep the call due to how unique it is!)

7900. RE: [AT_Sprint] Re: Let The Fun Begin

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-07 03:26:04 UTC
From: Dale Putnam
Topic: 7880 Message: 7900

I've had pretty nice handling results with a sheet of the white poly foam that is used for packing. One sheet, under the resistors and caps as they come outta the carriers.. works real well.. because the parts don't bounce. In anything hard.. they rebound with revenge that is awesome to behold.. and impossible to track.
As for the low power Fred... can you get any adjustment from the coils squeezing or spreading... and the upper limit of current is... at 9v input something around 900ma. And if you find that the coils don't reach by spreading or squeezing.. how about adding or taking a turn off? At this point you're operable, now it is time to find what works in your radio.. k?
--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: just.one.hill@...
Date: Fri, 6 Jan 2012 07:14:03 -0700
Subject: [AT_Sprint] Re: Let The Fun Begin

The trick now is to keep SMD parts from flying off the workbench.
Unfortunately, I know more than I wish I knew about that problem!

Dave
W7AQK

Have fun with it, Dave. It really is a nice
kit. FWIW, I build on top of a large cookie sheet to hang on to the
parts.

My ATS4B is having trouble on 15 and 20 mtrs. For
yet unresolved reason, the current drawn is way high on these two bands even
with low power out. Steve suggested that I check the soldering on
U8. I reheated that one (twice) but no joy.

anyone else experiencing such???

73, Fred - kt5x

7901. Re: [AT_Sprint] Re: Let The Fun Begin

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-07 12:13:33 UTC
From: Gil WA5YKK
Topic: 7880 Message: 7901

Dale;

While I'm slowly abusing my back and legs, "arthritis pills for dinner", I'm reviewing the little desk that I used to build my last project, thinking twice about the possibilities of SMT work. With your suggestion, even just to take parts out and account for them, I'm going to raid the shipping containers for the poly foam sheets which prevent "sometimes major" damage to heavy and large items which arrive. I think I can set up a nice set of walls around the whole table top, then put a deep tray in the work area that my sister uses for large size rectangular cakes - but of course, "buy my own tray".
Eventually, as pain and cold, flu and allergies allow me to think, I'll get some four "kits" back in the packages, and prepare them for your address. Have patience, age is not kind to me, so I may simply pick on one kit while you enjoy your professional touch.

Thanks for the hint, I might even get my sister to quit the acidic remarks about "that junk on the bed". She's NOT a "rig and antenna lover or appreciates the tech mess".

Tnx, 73's
Gil WA5YKK

On 1/6/2012 9:26 PM, Dale Putnam wrote:
>
>
> I've had pretty nice handling results with a sheet of the white poly
> foam that is used for packing. One sheet, under the resistors and caps
> as they come outta the carriers.. works real well.. because the parts
> don't bounce. In anything hard.. they rebound with revenge that is
> awesome to behold.. and impossible to track.
> As for the low power Fred... can you get any adjustment from the
> coils squeezing or spreading... and the upper limit of current is...
> at 9v input something around 900ma. And if you find that the coils
> don't reach by spreading or squeezing.. how about adding or taking a
> turn off? At this point you're operable, now it is time to find what
> works in your radio.. k?
> --... ...-- Dale - WC7S in Wy
>
> ---
> To: AT_Sprint@yahoogroups.com
> From: just.one.hill@...
> Date: Fri, 6 Jan 2012 07:14:03 -0700
> Subject: [AT_Sprint] Re: Let The Fun Begin
>
>

> The trick now is to keep SMD parts from flying off the workbench.
> Unfortunately, I know more than I wish I knew about that problem!
>
> Dave W7AQK
>

7902. Where do I find instructions on how to flash the ATS4 with the new file?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-07 16:40:52 UTC
From: Johnny Matlock
Topic: 7902 Message: 7902

GM all:
I have been reviewing the latest threads about re-programming the ATS4 B.
I found the schematic for the Parallel cable, and the IAR programs on the disk.
I have the programs installed and am building the cable.
How about and overview on how to flash the chip?
Is there a folder in the files section that explains this?
Thanks
Johnny AC0BQ

7903. Re: [AT_Sprint] Where do I find instructions on how to flash the ATS4 with the new file?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-07 19:03:06 UTC
From: Steven Weber
Topic: 7902 Message: 7903

> How about and overview on how to flash the chip?
> Is there a folder in the files section that explains this?

Lets start from scratch:
1. create a file folder someplace, My documents is okay place. You can name it MSP
2. down load the updated source code file ATS3B.s43 into that folder
3. From your CD, copy the file ATSB.prj (located in the MPS folder) into the folder created in step 1.

4. Instal FET_303.exe, this can be done from the CD
5. after instal is complete it will ask if you want to instal FET, leave box checked (yes, instal, that is the FET_R303u file)
6. Open IAR workbench. Programs > IAR systems > IAR ----MSP430 kickstart--- > IAR Embedded Workbench (Icon with pliers and screwdriver, 4th down in list).
7. Click on "Open file" icon in tool bar
8. Find the file ATSB.prj in the folder you moved it to and click on it.
9. A project window will open in the workspace. Open the folder named "common sources" and the ATS4B.s43 source code file name should apper. Double click on that file name and a new window with the source code should open up.
10. Plug in your programming cable to the parallel port
11. turn on the rig and connect your programming cable to the programming port on the board. No need to solder anything in. Just tilt the SIP pins at an angle to ensure a good friction fit.
12. Click on the "Debugger" icon in the tool bar. This looks like a magnifying glass on the bottom row of the tool bar on the left side of the screen.
13. C-Spy window will open and the down load should begin. A progress bar will show up and clear when the down load is complete. Close the C-Spy window when done.

If C-Spy can't find your device, an error message will come up and say "device not found or not supported". If this occurs, you might have a wiring error on your programming cable or didn't make good contact with the board.

I tried doing all this from a kit CD to an old PC running Win98 in order to remember all the steps. For some reason the project and source code files got transfered as READ ONLY, so no changes can be made to the files. That might be able to be change using the file properties settings.

Steve KD1JV

7904. Re: [AT_Sprint] Where do I find instructions on how to flash the ATS4 with the new file?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-07 19:23:59 UTC
From: Johnny Matlock
Topic: 7902 Message: 7904

Thanks Steve:
I will get the cable built and give it a try.
72
Johnny

On Sat, Jan 7, 2012 at 1:03 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> > How about and overview on how to flash the chip?
> > Is there a folder in the files section that explains this?
>
> Lets start from scratch:
> 1. create a file folder someplace, My documents is okay place. You can
> name
> it MSP
> 2. down load the updated source code file ATS3B.s43 into that folder
> 3. From your CD, copy the file ATSB.prj (located in the MPS folder) into
> the
> folder created in step 1.
>
> 4. Instal FET_303.exe, this can be done from the CD
> 5. after instal is complete it will ask if you want to instal FET, leave
> box
> checked (yes, instal, that is the FET_R303u file)
> 6. Open IAR workbench. Programs > IAR systems > IAR ----MSP430
> kickstart--- > IAR Embedded Workbench (Icon with pliers and screwdriver,
> 4th
> down in list).
> 7. Click on "Open file" icon in tool bar
> 8. Find the file ATSB.prj in the folder you moved it to and click on it.
> 9. A project window will open in the workspace. Open the folder named
> "common sources" and the ATS4B.s43 source code file name should apper.
> Double click on that file name and a new window with the source code
> should
> open up.
> 10. Plug in your programming cable to the parallel port
> 11. turn on the rig and connect your programming cable to the programming
> port on the board. No need to solder anything in. Just tilt the SIP pins
> at
> an angle to ensure a good friction fit.
> 12. Click on the "Debugger" icon in the tool bar. This looks like a
> magnifying glass on the bottom row of the tool bar on the left side of the

> screen.
> 13. C-Spy window will open and the down load should begin. A progress bar
> will show up and clear when the down load is complete. Close the C-Spy
> window when done.
>
> If C-Spy can't find your device, an error message will come up and say
> "device not found or not supported". If this occurs, you might have a
> wiring
> error on your programming cable or didn't make good contact with the board.
>
> I tried doing all this from a kit CD to an old PC running Win98 in order
> to
> remember all the steps. For some reason the project and source code files
> got transfered as READ ONLY, so no changes can be made to the files. That
> might be able to be change using the file properties settings.
>
> Steve KD1JV
>
>
>

7905. RE: [AT_Sprint] Re: Let The Fun Begin

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-07 19:33:32 UTC
From: Dale Putnam
Topic: 7880 Message: 7905

Works for me Gil, No problem. Yep, I know how it is with someone that doesn't appreciate the total awesomeness of a fine antenna. So... I put them outta sight.. if you don't look "that way"....you won't see... any new antennas.... well.. it works sometimes.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
CC: daleputnam@...
From: WA5YKK@Centurytel.net
Date: Sat, 7 Jan 2012 06:13:33 -0600
Subject: Re: [AT_Sprint] Re: Let The Fun Begin

Dale;

While I'm slowly abusing my back and legs, "arthritis pills for dinner", I'm reviewing the little desk that I used to build my last project, thinking twice about the possibilities of SMT work. With your suggestion, even just to take parts out and account for them, I'm going to raid the shipping containers for the poly foam sheets which prevent "sometimes major" damage to heavy and large items which arrive. I think I can set up a nice set of walls around the whole table top, then put a deep tray in the work area that my sister uses for large size rectangular cakes - but of course, "buy my own tray".

Eventually, as pain and cold, flu and allergies allow me to think, I'll get some four "kits" back in the packages, and prepare them for your address. Have patience, age is not kind to me, so I may simply pick on one kit while you enjoy your professional touch.

Thanks for the hint, I might even get my sister to quit the acidic remarks about "that junk on the bed". She's NOT a "rig and antenna lover or appreciates the tech mess".

Tnx, 73's

Gil WA5YKK

On 1/6/2012 9:26 PM, Dale Putnam wrote:

I've had pretty nice handling results with a sheet of the white poly foam that is used for packing. One sheet, under the resistors and caps as they come outta the carriers.. works real well.. because the parts don't bounce. In anything hard.. they rebound with revenge that is awesome to behold.. and impossible to track.

As for the low power Fred... can you get any adjustment from the coils squeezing or spreading... and the upper limit of current is... at 9v input something around 900ma. And if you find that the coils don't reach by spreading or squeezing.. how about adding or taking a turn off? At this point you're operable, now it is time to find what works in your radio.. k?

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com

From: just.one.hill@...

Date: Fri, 6 Jan 2012 07:14:03 -0700

Subject: [AT_Sprint] Re: Let The Fun Begin

The trick now is to keep SMD parts from flying off the workbench. Unfortunately, I know more than I wish I knew about that problem!

Dave W7AQK

7906. RE: QRP ARCI's Holiday Spirits Home Brew Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-07 20:02:09 UTC
From: James Rodenkirch
Topic: 7828 Message: 7906

The 2012 Pet Rock contest is over and three logs already submitted! If you participated you are encouraged to submit your log and summary sheet. Visit www.qrparci.org and look up the "rules" for the contest to see what information is needed to be included in your summary sheet.

Looking forward to seeing the log entries! 72, Jim Rodenkirch, K9JWV QRP ARCI Contest Manager

7907. ATS-4 ECO

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-07 20:35:45 UTC
From: Steven
Topic: 7907 Message: 7907

ECO - enginnering change order.

Problem: it was called to my attention that the Tx current for 20M was significantly higher then other bands for the same power out. Also, achiving 5W out with 12V supply was difficult.

Fix: Add one turn to L17 (was 11T now 12T). Remove one turn from L18 (was 16T now 15T).

5W is now easy to obtain with 12V supply and Tx current is now 680 ma (PA + fixed current) instead of 850 ma.

This ECO applies to all ATS-4 rigs.

7908. Re: A picture of the programming connection on the board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-08 04:45:51 UTC
From: rasteenb
Topic: 7881 Message: 7908

Thanks Mike - I'll give it a try.

Cheers,
Rob

--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:
>
> The programming cable Steve describes in the documentation is for a parallel port. Usb to parallel converters won't work. There is a USB programmer (TI or Olimex both make one), but it costs about $100. I'll stick with parallel myself. The 7-pin header on the board is a JTAG interface. You can leave them unpopulated and use a 7 pin connector on the cable. Just push the pins in the holes then remove when done. Sometimes you may have to apply a little side pressure to ensure good connections. I have noticed that I could not get the TI software to work on my 64 bit machine, so I use my older 32-bit machine to program ATS rigs. When my old computer stops working I'll probably break down and get the USB FET programmer (MSP-FET430UIF).
>
> 73 de w1mt/mike
>
>
>
>
> >_____
> >
> >Hello:
> >
> >So I want to build the cable to connect my ATS-4b to my computer so I can upgrade the firmware.
> >
> >The DB25 end of the cable looks easy enough.
> >
> >What about the other end?
> >
> >Did you install male or female headers on the board?
> >
> >What kind of connector did you put on the end of the cable?
> >
> >Got any pictures?
> >
> >Cheers,
> >Rob KA8JBY
> >
> >
> >
> >------------------------------------

> >
> >Yahoo! Groups Links
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>

7909. Updated ATS-4b FW works great!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-08 18:47:30 UTC
From: mikepenzo
Topic: 7909 Message: 7909

Thanks to Steve for posting the updated ATS-4b firmware. After struggling with a permissions issue, I finally got the IDE setup on my old Windows XP machine. I flashed the new firmware with a parallel cable I built per Steve's instructions (pictures uploaded to the photo section). I'm happy to report the DFE labels now appear as they should and the rig returns to the last frequency used after a power cycle!

My permission problem was resolved when I removed the installation CD from my CDROM drive. The embedded workbench will continue to use the path back to your CDROM drive and complain that it can't write files until you remove the CD.

Good luck,
Mike
WM4X

7910. Re: [AT_Sprint] Re: power output ATS3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-08 21:16:07 UTC
From: Johnny Matlock
Topic: 7837 Message: 7910

fyi

On Fri, Dec 30, 2011 at 7:40 PM, Michael Harnage <w1mt@...> wrote:

> **
>
>
> It's so much easier to just square the Vpeak and divide by 100. :)
>
> -mike/w1mt
>
> ----------
> **
>
>
> P = V squared / 50.
>
> If you measure 15.0 volts peak, multiply by .707, and you get 10.6V RMS.
>
> P = 10.6 X 10.6 / 50 = 2.25W.
>
>
>
>

7911. Re: [AT_Sprint] Re: power output ATS3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-08 21:25:06 UTC
From: Fred Maas
Topic: 7837 Message: 7911

it wouldn't be right.

fd

fyi

On Fri, Dec 30, 2011 at 7:40 PM, Michael Harnage <w1mt@...> wrote:

It's so much easier to just square the Vpeak and divide by 100. :)

-mike/w1mt

P = V squared / 50.

If you measure 15.0 volts peak, multiply by .707, and you get 10.6V RMS.

P = 10.6 X 10.6 / 50 = 2.25W.

7912. Re: [AT_Sprint] Where do I find instructions on how to flash the ATS4 with the new file?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-08 22:34:14 UTC
From: Johnny Matlock
Topic: 7902 Message: 7912

Ge Steve:
I loaded the software, built the cable, but I can't get connected to the rig in the debug mode?
Error is Could not find target.
I am running this on a XP machine.
I am hooking up the sip pins with the ground pin 1 to the left.
Is this correct?
Thanks
Johnny AC0BQ

On Sat, Jan 7, 2012 at 1:23 PM, Johnny Matlock <jomatlock@...> wrote:

> Thanks Steve:
> I will get the cable built and give it a try.
> 72
> Johnny
>
> On Sat, Jan 7, 2012 at 1:03 PM, Steven Weber <steve.kd1jv@...>wrote:
>
>> **
>>
>>
>> > How about and overview on how to flash the chip?
>> > Is there a folder in the files section that explains this?
>>
>> Lets start from scratch:
>> 1. create a file folder someplace, My documents is okay place. You can
>> name
>> it MSP
>> 2. down load the updated source code file ATS3B.s43 into that folder
>> 3. From your CD, copy the file ATSB.prj (located in the MPS folder) into
>> the
>> folder created in step 1.
>>
>> 4. Instal FET_303.exe, this can be done from the CD
>> 5. after instal is complete it will ask if you want to instal FET, leave
>> box
>> checked (yes, instal, that is the FET_R303u file)
>> 6. Open IAR workbench. Programs > IAR systems > IAR ----MSP430
>> kickstart--- > IAR Embedded Workbench (Icon with pliers and screwdriver,
>> 4th
>> down in list).
>> 7. Click on "Open file" icon in tool bar
>> 8. Find the file ATSB.prj in the folder you moved it to and click on it.

>> 9. A project window will open in the workspace. Open the folder named
>> "common sources" and the ATS4B.s43 source code file name should apper.
>> Double click on that file name and a new window with the source code
>> should
>> open up.
>> 10. Plug in your programming cable to the parallel port
>> 11. turn on the rig and connect your programming cable to the programming
>> port on the board. No need to solder anything in. Just tilt the SIP pins
>> at
>> an angle to ensure a good friction fit.
>> 12. Click on the "Debugger" icon in the tool bar. This looks like a
>> magnifying glass on the bottom row of the tool bar on the left side of
>> the
>> screen.
>> 13. C-Spy window will open and the down load should begin. A progress bar
>> will show up and clear when the down load is complete. Close the C-Spy
>> window when done.
>>
>> If C-Spy can't find your device, an error message will come up and say
>> "device not found or not supported". If this occurs, you might have a
>> wiring
>> error on your programming cable or didn't make good contact with the
>> board.
>>
>> I tried doing all this from a kit CD to an old PC running Win98 in order
>> to
>> remember all the steps. For some reason the project and source code files
>> got transfered as READ ONLY, so no changes can be made to the files. That
>> might be able to be change using the file properties settings.
>>
>> Steve KD1JV
>>
>>
>>
>
>

7913. Re: [AT_Sprint] Updated ATS-4b FW works great!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-08 23:14:08 UTC
From: Johnny Matlock
Topic: 7909 Message: 7913

Ge Mike:
In your picture of your 25 pin connector, are the wide side of the pins up in the pic?
If so I have built my cable as a mirror image?
Thanks
Johnny AC0BQ

On Sun, Jan 8, 2012 at 12:47 PM, mikepenzo <mikepenzo@gmail.com> wrote:

> **
>
>
> Thanks to Steve for posting the updated ATS-4b firmware. After struggling
> with a permissions issue, I finally got the IDE setup on my old Windows XP
> machine. I flashed the new firmware with a parallel cable I built per
> Steve's instructions (pictures uploaded to the photo section). I'm happy to
> report the DFE labels now appear as they should and the rig returns to the
> last frequency used after a power cycle!
>
> My permission problem was resolved when I removed the installation CD from
> my CDROM drive. The embedded workbench will continue to use the path back
> to your CDROM drive and complain that it can't write files until you remove
> the CD.
>
> Good luck,
> Mike
> WM4X
>
>
>

7914. ats 4 flash

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-08 23:53:01 UTC
From: Johnny Matlock
Topic: 7914 Message: 7914

Ge all
On the ATS 4 flash header which pins is gnd??
To the left or right?
Thanks
Johnny AC0BQ

7915. Re: Updated ATS-4b FW works great!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-08 23:58:29 UTC
From: mikepenzo
Topic: 7909 Message: 7915

Johnny,
Nope, in the picture I posted of the DB25, the narrow or short row of pins are on top and the long row is at the bottom. It's a female DB25 connector. The 220 ohm resistors are hidden by the red and black heat shrink material since I soldered them directly to the connector.
73,
Mike

--- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@...> wrote:
>
> Ge Mike:
> In your picture of your 25 pin connector, are the wide side of the pins up
> in the pic?
> If so I have built my cable as a mirror image?
> Thanks
> Johnny AC0BQ
>
> On Sun, Jan 8, 2012 at 12:47 PM, mikepenzo <mikepenzo@...> wrote:
>
> > **
> >
> >
> > Thanks to Steve for posting the updated ATS-4b firmware. After struggling
> > with a permissions issue, I finally got the IDE setup on my old Windows XP
> > machine. I flashed the new firmware with a parallel cable I built per
> > Steve's instructions (pictures uploaded to the photo section). I'm happy to
> > report the DFE labels now appear as they should and the rig returns to the
> > last frequency used after a power cycle!
> >
> > My permission problem was resolved when I removed the installation CD from
> > my CDROM drive. The embedded workbench will continue to use the path back
> > to your CDROM drive and complain that it can't write files until you remove
> > the CD.
> >
> > Good luck,
> > Mike
> > WM4X
> >
> >
> >
>

7916. Re: [AT_Sprint] Re: Updated ATS-4b FW works great!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 00:08:41 UTC
From: Johnny Matlock
Topic: 7909 Message: 7916

Ok Mike
Thanks for the info.
I counted the pins after I emailed you, and realized that the short row is up.
I rebuilt my cable and still am getting an error that says "could not find target" I am about out of ideas!
What error did you have when you CD was in the Computer?
THanks
Johnny

On Sun, Jan 8, 2012 at 5:58 PM, mikepenzo <mikepenzo@...> wrote:

> **
>
>
>
> Johnny,
> Nope, in the picture I posted of the DB25, the narrow or short row of pins
> are on top and the long row is at the bottom. It's a female DB25 connector.
> The 220 ohm resistors are hidden by the red and black heat shrink material
> since I soldered them directly to the connector.
> 73,
> Mike
>
>
> --- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@...> wrote:
> >
> > Ge Mike:
> > In your picture of your 25 pin connector, are the wide side of the pins
> up
> > in the pic?
> > If so I have built my cable as a mirror image?
> > Thanks
> > Johnny AC0BQ
> >
> > On Sun, Jan 8, 2012 at 12:47 PM, mikepenzo <mikepenzo@...> wrote:
> >
> > > **
>
> > >
> > >
> > > Thanks to Steve for posting the updated ATS-4b firmware. After
> struggling
> > > with a permissions issue, I finally got the IDE setup on my old
> Windows XP

> > > machine. I flashed the new firmware with a parallel cable I built per
> > > Steve's instructions (pictures uploaded to the photo section). I'm
> happy to
> > > report the DFE labels now appear as they should and the rig returns to
> the
> > > last frequency used after a power cycle!
> > >
> > > My permission problem was resolved when I removed the installation CD
> from
> > > my CDROM drive. The embedded workbench will continue to use the path
> back
> > > to your CDROM drive and complain that it can't write files until you
> remove
> > > the CD.
> > >
> > > Good luck,
> > > Mike
> > > WM4X
> > >
> > >
> > >
> >
>
>
>

7917. Re: [AT_Sprint] ats 4 flash

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 02:19:19 UTC
From: Steven Weber
Topic: 7914 Message: 7917

> Ge all
> On the ATS 4 flash header which pins is gnd??
> To the left or right?

It depends if your looking at the top or the bottom of the board. It is the pad closest to the edge of the board, next to the '386 audio amp.

The no device found means your cable is not wired correctly or the header pins are not making good connection to the board. I always angle them slightly to ensure good connections.

Steve

7918. Re: [AT_Sprint] ats 4 flash

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 03:51:54 UTC
From: Johnny Matlock
Topic: 7914 Message: 7918

Many Thanks to you and Mike for the clarification.
Plugged it in this time and it took off running like a striped ape! (what ever that might be???)
72 73
Johnny AC0BQ

On Sun, Jan 8, 2012 at 8:19 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> > Ge all
> > On the ATS 4 flash header which pins is gnd??
> > To the left or right?
>
> It depends if your looking at the top or the bottom of the board. It is
> the
> pad closest to the edge of the board, next to the '386 audio amp.
>
> The no device found means your cable is not wired correctly or the header
> pins are not making good connection to the board. I always angle them
> slightly to ensure good connections.
>
> Steve
>
>
>

7919. The flash cable

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 15:07:37 UTC
From: w1dry
Topic: 7919 Message: 7919

Hi all,

I apologise for my slow response but could someone please point me to the message that described the wire up for the flash cable (parallel to JTAG) I can't seem to find it anywhere in the messages.

Thanks,

72 de Mike
W1DRY

7920. Re: [AT_Sprint] The flash cable

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 16:03:25 UTC
From: Michael Harnage
Topic: 7919 Message: 7920

http://groups.yahoo.com/group/AT_Sprint/message/1869

Pictures are in the recent manuals as well.

-mike/w1mt

>_____
>
>I apologise for my slow response but could someone please point me to the message that described the wire up for the flash cable (parallel to JTAG) I can't seem to find it anywhere in the messages.
>
>

7921. Re: [AT_Sprint] The flash cable

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 17:33:00 UTC
From: Steven Weber
Topic: 7919 Message: 7921

It is shown on the last page of the ATS-4b manual, and is included in all
ATS manuals since the ATS-3 series started.

> I apologise for my slow response but could someone please point me to the
> message that described the wire up for the flash cable (parallel to JTAG)
> I can't seem to find it anywhere in the messages.
>
>

7922. ATS4 FQ storage

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 18:07:28 UTC
From: Fred Maas
Topic: 7922 Message: 7922

Turning the rig off:

Power is turned off by clicking holding the "FN" (function) switch closed for about 3 seconds, at which time the message "OFF" will appear in

the lower left corner of the display. Release the switch and the rig will turn off. Just before turning off, the current state of the rig is stored in

memory. Keyer speed, keyer Iambic mode and the last used frequency for each band is saved. These settings are restored when the rig is

powered back on.

The radio must have done this at least once, because when I turn the radio on now, it comes up on 3.502 for 80M, 7.025 for 40M, 14.025 for 20M, ...

BUT, it sure does NOT do it every time I power off, and then power back on using the buttons.

there must be some sequence of events that I am doing sometimes and not others leading to the storage of the "last used frequency" sometimes and not others??? what would that be???

73, Fred -kt5x

7923. last freq used ... ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 19:53:39 UTC
From: Fred Maas
Topic: 7923 Message: 7923

Found it. I don't find it in the manual. I find (with mine at least) I must both SEND at least a dit,and ALSO change bands. THEN it saves. otherwise, no.

73, Fred - kt5x

7924. MSP430 LaunchPad Value Line Development kit for programming?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 21:43:42 UTC
From: ralandsman
Topic: 7924 Message: 7924

Will this TI kit work for programming http://www.ti.com/tool/msp-exp430g2 ? If so, it's only $4.30

7925. Re: [AT_Sprint] MSP430 LaunchPad Value Line Development kit for programming?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 21:55:40 UTC
From: Colin Tuckley
Topic: 7924 Message: 7925

No, looks like it only does the dip package not the smt ones that Steve uses.

Also, not sure what they mean by "value line".

Colin

On 1/9/12, ralandsman <rlandsman@...> wrote:
> Will this TI kit work for programming http://www.ti.com/tool/msp-exp430g2 ?
> If so, it's only $4.30
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Colin Tuckley | colintu@... | +44(0)7799 143369
PGP/GnuPG Key Id: 0x1B3045CE

7926. Re: [AT_Sprint] MSP430 LaunchPad Value Line Development kit for programming?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 22:15:45 UTC
From: Michael Harnage
Topic: 7924 Message: 7926

I don't think so.

It's been a while since I investigated this but I think it had something to do with the LaunchPad using 2-wire SPy-Bi_Wire interface vice JTAG to program the MPU's.

This is from the TI FAQ on the LaunchPad:

1. Can other programming tools like the MSP-FET430UIF interface the MSP-EXP430G2 LaunchPad socket device?

The LaunchPad experimenter board works with any programming tool that supports the 2-wire Spy-Bi-Wire interface. Both the MSP430 USB FET (MSP-FET430UIF) and the Gang Programmer (MSP-GANG430) support these devices, but the connection must be made directly to the dedicated
Spy-Bi-Wire ports. See MSP-FET430 Flash Emulation Tool User's Guide (SLAU138) for details on
using MSP430 USB FET and the Gang Programmer for a 2-wire Spy-Bi-Wire interface. Do not try to
connect the standard JTAG connector to the MSP-EXP430G2 pinheads, as this could result in damage
to the attached hardware.

>_____
> From: ralandsman <rlandsman@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Monday, January 9, 2012 4:43 PM
>Subject: [AT_Sprint] MSP430 LaunchPad Value Line Development kit for programming?
>
>Will this TI kit work for programming http://www.ti.com/tool/msp-exp430g2 ? If so, it's only $4.30
>
>
>
>------------------------------------
>
>Yahoo! Groups Links
>
>
>
>
>
>

7927. Re: MSP430 LaunchPad Value Line Development kit for programming?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-09 23:01:28 UTC
From: Reginald
Topic: 7924 Message: 7927

FWIW I'm pretty sure you can. I'm *not* an expert, but a friend of mine who *is* an MSP430 expert and I are working on a project. The prototype uses a new smt only MSP430 that has 3x24 bit A/D. He's building the prototype as a daughter board so we can use the Launchpad to program it.

Have Fun!
Reg

--- In AT_Sprint@yahoogroups.com, "ralandsman" <rlandsman@...> wrote:
>
> Will this TI kit work for programming http://www.ti.com/tool/msp-exp430g2 ? If so, it's only $4.30
>

7928. Re: Unassembled ats 4 and 3b and JN1GLB PCB for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-10 02:59:36 UTC
From: Zachary L
Topic: 7356 Message: 7928

Do you still have the JN1GLB PCB for sale?
Regards,
Zach

--- In AT_Sprint@yahoogroups.com, "Michael P" <mikey@...> wrote:
>
>
> ATS 4 sold
>
> --- In AT_Sprint@yahoogroups.com, "Michael P" <mikey@> wrote:
> >
> > I have 2 assembled kits and 1 PCB I'd like to sell.
> >
> > Last run of the 3B and first run of the 4 and the PCB for the JN1GLB PA.
> >
> > I'd like to get what I paid for each.
> > For the Sprint 3B, $180 or BO
> > For the Sprint 4, $230 or BO.
> > The the 2 Kits, I'll pay USPS Flat Rate Priority for US. No international please.
> >
> > I also have the PCB rom Makoto, JN1GLB. I paid $15. I would rather sell then with one of the above kits. Otherwise I need the $5 for priority shipping.
> >
> > I prefer paypal.
> >
>

7929. Re: The flash cable

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-10 18:59:17 UTC
From: rasteenb
Topic: 7919 Message: 7929

Hi Mike:

I added some photose of the cable
<http://groups.yahoo.com/group/AT_Sprint/photos/album/1029230128/pic/lis\
t> I built; the album is under my callsign KA8JBY. Since I had some
laying around, I used a snap-able machine pin SIP socket from All
Electronics
<http://www.allelectronics.com/make-a-store/item/SIP-40/40-PIN-MACHINE-P\
IN-SIP-SOCKET-SNAPPABLE/1.html> as both a plug for the cable and a
receptacle on the board. It sits slightly lower than the display
socket, so it doesn't interfere with the display.

The upload of the new firmware went smoothly. I learned I had to plug
the cable into my board first, then plug it into the computer in order
for the device to be recognized. The updated firmware works great.

Good Luck & 73,
Rob
KA8JBY

--- In AT_Sprint@yahoogroups.com, "w1dry" <w1dry@...> wrote:
>
> Hi all,
>
> I apologise for my slow response but could someone please point me to
the message that described the wire up for the flash cable (parallel to
JTAG) I can't seem to find it anywhere in the messages.
>
> Thanks,
>
> 72 de Mike
> W1DRY
>

7930. RE: [AT_Sprint] Re: The flash cable

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-11 00:18:26 UTC
From: Michael Wyman
Topic: 7919 Message: 7930

Hi Rob,

Thanks for the quick response. I will put a cable together . . .

Cheers,

72 de Mike

W1DRY

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of rasteenb
Sent: Tuesday, January 10, 2012 11:59 AM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: The flash cable

Hi Mike:

I added some photose of the cable <http://groups.yahoo.com/group/AT_Sprint/photos/album/1029230128/pic/list> I built; the album is under my callsign KA8JBY. Since I had some laying around, I used a snap-able machine pin SIP socket from All Electronics <http://www.allelectronics.com/make-a-store/item/SIP-40/40-PIN-MACHINE-PIN-SIP-SOCKET-SNAPPABLE/1.html> as both a plug for the cable and a receptacle on the board. It sits slightly lower than the display socket, so it doesn't interfere with the display.

The upload of the new firmware went smoothly. I learned I had to plug the cable into my board first, then plug it into the computer in order for the device to be recognized. The updated firmware works great.

Good Luck & 73,
Rob
KA8JBY

--- In AT_Sprint@yahoogroups.com, "w1dry" <w1dry@...> wrote:
>
> Hi all,
>
> I apologise for my slow response but could someone please point me to the message that described the wire up for the flash cable (parallel to JTAG) I can't seem to find it anywhere in the messages.
>
> Thanks,
>
> 72 de Mike
> W1DRY

>

7931. ATS4B output

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-11 07:09:16 UTC
From: r_zerr
Topic: 7781 Message: 7931

So, all of Freds' KT5X talk about checking power output has pushed me for more efforts to optimize.

I started out this evening with some large 50 ohm load resistor and a Tectronix o-scope that I have access to. As was mentioned previously, I reconfirmed some of the oddities with measuring RF, and had to play with probe settings, and automatic measurements to have things start to make some sense, but I am still not there. Things like the automated Vrms being 23-27V is somewhat telling here.

However, I did note that the 15M, and only the 15M signal was not a good, stable signal. I kicked in the FFT of this and verified that 40M, 30M, 20M, and 17M all looked great, with proper looking spectrum. 15M showed spikes around 3.2+/- MHZ, 10.6+/- MHz, as well as 21.06 MHz for the principle frequency. Comparing the lower frequencies to the magnitude of the 21 MHz component, the 3.2 MHZ was about 1/4 magnitude and the 10.6 MHZ was about 1/3 the magnitude.

Any ideas on the cause of the distortion?

-Ron

7932. Wanted: ATS3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-11 09:18:23 UTC
From: erehm
Topic: 7932 Message: 7932

Looking for an ATS3B, kit or built, for lightweight SOTA work.

/eric KJ7AE

7933. Re: [AT_Sprint] Wanted: ATS3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-11 10:04:18 UTC
From: Mike
Topic: 7932 Message: 7933

I have an ATS3B kit unbuilt for sell.

On Jan 11, 2012, at 4:18 AM, "erehm" <erehm@...> wrote:

> Looking for an ATS3B, kit or built, for lightweight SOTA work.
>
> /eric KJ7AE
>
>

7934. Re: [AT_Sprint] Wanted: ATS3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-11 14:17:13 UTC
From: n4wdc@va.metrocast.net
Topic: 7932 Message: 7934

Eric,
Steve sold out of his first run of 100 ATS-4(rev b)s in 3 hours, so he kitted up another 48 for sale at http://kd1jv.qrpradio.com/ATS4/ATS4.htm
I'd go ahead and buy the latest, greatest since you don't have to swap band modules.
I bought one of these and will be building it sometime when it snows this winter.
David N4WDC

On Wed 01/11/12 04:18 , "erehm" erehm@earthlink.net sent:
> Looking for an ATS3B, kit or built, for lightweight SOTA work.
> /eric KJ7AE

7935. Re: Wanted: ATS3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-11 14:19:23 UTC
From: Fred Maas
Topic: 7932 Message: 7935
Attachments: 1 described; binary payloads are missing from this source WARC

Good choice ;-)

Fred - kt5x (WS0TA)

Looking for an ATS3B, kit or built, for lightweight SOTA work.

/eric KJ7AE

7936. ATS4B arrives

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-11 23:02:48 UTC
From: Doug Phillips
Topic: 7936 Message: 7936

In the mail box in Sammamish, WA just east of Seattle ;-)

73, Doug W7DP

7937. Re: [AT_Sprint] Wanted: ATS3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-11 23:37:20 UTC
From: Stephen Wandling
Topic: 7932 Message: 7937

Eric,

I sent you an off list email but your spam program ate it?

72
Stephen
VE7NSD

On 11/01/2012 1:18 AM, erehm wrote:
> Looking for an ATS3B, kit or built, for lightweight SOTA work.
>
> /eric KJ7AE
>
>
>
> ---
>
> Yahoo! Groups Links
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>

7938. Re: [AT_Sprint] Re: Wanted: ATS3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-11 23:54:28 UTC
From: Johnny Matlock
Topic: 7932 Message: 7938
Attachments: 1 described; binary payloads are missing from this source WARC

COOL set up you have Fred!
I see the tuner is the EFW from Stu.
Is the rig a ATS3?
I have built the 3 and just finished the 4.
Great little rigs that Steve has designed!
72
Johnny AC0BQ

On Wed, Jan 11, 2012 at 8:19 AM, Fred Maas <just.one.hill@...> wrote:

> **
>
>
> **
> Good choice ;-)
>
> Fred - kt5x (WS0TA)
>
>
>
> Looking for an ATS3B, kit or built, for lightweight SOTA work.
>
> /eric KJ7AE
>
>
>

7939. Re: ATS3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-12 01:44:24 UTC
From: Fred Maas
Topic: 3139 Message: 7939

Ed Zachery, Johnny. That photo was on top of Mt Elbert, 14,433 ft. Also just finished a "four." It worked straight away, but i struggled adjusting it. While working with it, I discovered that my ATS3B was only producing an appropriate level of RF on 20 M. Now both of them are generating at least 5 watts on all bands. I amazed at the efficiency, typically over 75%.

72, Fred - KT5X

aka WS0TA
COOL set up you have Fred!
I see the tuner is the EFW from Stu.
Is the rig a ATS3?
I have built the 3 and just finished the 4.
Great little rigs that Steve has designed!
72
Johnny AC0BQ

7940. Re: [AT_Sprint] ATS4B arrives

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-11 23:55:57 UTC
From: Dan Babcock
Topic: 7936 Message: 7940

And in Payson, AZ about 75 miles NNE of Phoenix. Thanks Steve.

73,

Dan N4XWE

From: Doug Phillips <w7rdp@msn.com>
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, January 11, 2012 4:02 PM
Subject: [AT_Sprint] ATS4B arrives

In the mail box in Sammamish, WA just east of Seattle ;-)

73, Doug W7DP

7941. ATS4 Manuals

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-12 17:48:04 UTC
From: Mike
Topic: 7941 Message: 7941

Hi,

Is the ATS4 assembly-only manual in the group files section dated 12/8/11 the same as the assembly section of the manual dated 1/4/12 that comes on the kit CD?

I've already printed out the group assembly-only manual and am wondering if I need to toss that and print out the assembly instructions that came on the CD.

Also - are there any errata/corrections that need to be made to the supplied manual?

73

Mike - ke5akl

7942. Re: ATS4B arrives

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-12 18:10:17 UTC
From: Louis
Topic: 7936 Message: 7942

and mine as well in Webster Groves MO. Great job Steve!

Lou W0TQ

--- In AT_Sprint@yahoogroups.com, Doug Phillips <w7rdp@...> wrote:
>
> In the mail box in Sammamish, WA just east of Seattle ;-)
>
> 73, Doug W7DP
>

7943. Re: [AT_Sprint] ATS4 Manuals

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-12 18:42:45 UTC
From: Steven Weber
Topic: 7941 Message: 7943

```
>
> Is the ATS4 assembly-only manual in the group files section dated 12/8/11
> the same as the assembly section of the manual dated 1/4/12 that comes on
> the kit CD?
```

If your manual is named "ATS4B_revised", then it is the current manual and the same as the assembly only manual in the files section. There is no need to print out another copy.

There is still one error in the manauls (except for those most recently shipped) for the number of turns for the 20M LPF coils. This change was posted here a week or so ago.

L17 should be 12T (was 11) and L18 should be 15T (was 16).

Steve

7944. Building 15 & 17 version

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-12 20:15:09 UTC
From: Mike
Topic: 7944 Message: 7944

Hi,

I'm planning to build the 15&17-with-no-80-meters ATS-4B version. The manual has a comment that "The extra filter parts needed to build both the 17 and 15 meter bands will be available from kd1jv for $5.00".

Do I need to order these parts? If so, how do I go about this?

73,

Mike

7945. ATS4B availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-12 21:34:41 UTC
From: mstangelo@comcast.net
Topic: 7941 Message: 7945

Steve,

Are the second run ATS4B kits still available?

Is it possible to delete the 80 meter band and include 15 as well as 17? You didn't recommend doing this with the ATS4.

73,

Mike N2MS

----- Original Message -----
From: Steven Weber <steve.kd1jv@...>
To: AT Sprint <AT_Sprint@yahoogroups.com>
Sent: Thu, 12 Jan 2012 18:42:45 -0000 (UTC)
Subject: Re: [AT_Sprint] ATS4 Manuals

>
> Is the ATS4 assembly-only manual in the group files section dated 12/8/11
> the same as the assembly section of the manual dated 1/4/12 that comes on
> the kit CD?

If your manual is named "ATS4B_revised", then it is the current manual and the same as the assembly only manual in the files section. There is no need to print out another copy.

There is still one error in the manauls (except for those most recently shipped) for the number of turns for the 20M LPF coils. This change was posted here a week or so ago.

L17 should be 12T (was 11) and L18 should be 15T (was 16).

Steve

7946. Re: [AT_Sprint] ATS4B availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 01:17:18 UTC
From: Steven Weber
Topic: 7941 Message: 7946

Yes, I have 2 left!

You can not put 17 or 15 in the 80M slot, you have to move everything to the left one position.

Steve,

Are the second run ATS4B kits still available?

Is it possible to delete the 80 meter band and include 15 as well as 17? You didn't recommend doing this with the ATS4.

73,

Mike N2MS

7947. RE: The flash cable

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 02:43:52 UTC
From: Bob Flye
Topic: 7919 Message: 7947

Greetings all,
Just received my kit Monday, first ATS kit for me. I read with interest the email below from Rob, KA8JBY on the flash cable construction. I have a couple questions. First, the manual talks about the display being difficult to remove after being inserted. If you mount the programming port on top, as shown, you have to remove the display, am I looking for trouble? Second, how often would we have a need to update the firmware?
73
Bob, AD7BP

"You are boldly going where no man knows what he is doing" -Maarten Schmidt, Palomar astronomer-

Re: The flash cable
Posted by: "rasteenb" rasteenb@... rasteenb
Tue Jan 10, 2012 10:59 am (PST)

Hi Mike:

I added some photose of the cable
<http://groups. yahoo.com/ group/AT_ Sprint/photos/ album/1029230128 /pic/lis\
t> I built; the album is under my callsign KA8JBY. Since I had some
laying around, I used a snap-able machine pin SIP socket from All
Electronics
<http://www.allelect ronics.com/ make-a-store/ item/SIP- 40/40-PIN- MACHINE-P\
IN-SIP-SOCKET- SNAPPABLE/ 1.html> as both a plug for the cable and a
receptacle on the board. It sits slightly lower than the display
socket, so it doesn't interfere with the display.

The upload of the new firmware went smoothly. I learned I had to plug
the cable into my board first, then plug it into the computer in order
for the device to be recognized. The updated firmware works great.

Good Luck & 73,
Rob
KA8JBY

7948. Re: [AT_Sprint] RE: The flash cable

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 02:50:18 UTC
From: Michael Harnage
Topic: 7919 Message: 7948

I recommend you not use a header or port for the programming pins. Instead just use pins on the end on the cable. The holes are plated thru and a little side pressure will be all that is needed to ensure good connection. If your happy with the firmware you may never need to reprogram. If you program and can modify the code you may do it thousands of times. If you want any upgrades that come along you may only do it a hand full of times.

73 de w1mt/mike

----- Original Message -----
  >First, the manual talks about the display being difficult to remove
> after being inserted. If you mount the programming port on top, as shown, you
> have to remove the display, am I looking for trouble? Second, how often would
> we have a need to update the firmware?

7949. Re: [AT_Sprint] RE: The flash cable

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 03:50:28 UTC
From: Steven Weber
Topic: 7919 Message: 7949

If you just got the kit, you probably have the bug free firmware. I use .025 square SIP pins for my header, which provide a reasonably snug fit into the pads, so no socket is needed and I access from the bottom of the board so the display does not have to be removed.

Unless you want to play with the firmware, you don't need to up date it at all or maybe once.

Steve

> Just received my kit Monday, first ATS kit for me. I read with interest
> the email below from Rob, KA8JBY on the flash cable construction. I have
> a couple questions. First, the manual talks about the display being
> difficult to remove after being inserted. If you mount the programming
> port on top, as shown, you have to remove the display, am I looking for
> trouble? Second, how often would we have a need to update the firmware?

7950. Parts for 15&17 version?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 06:10:03 UTC
From: Mike
Topic: 7950 Message: 7950

Steve,

I'll try this again... I'm planning to build the 15&17-with-no-80-meters ATS-4B version. The manual says: "The extra filter parts needed to build both the 17 and 15 meter bands will be available from kd1jv for $5.00".

Do I need to order these parts? If so, how do I go about this?

73,

Mike

7951. 15 and 17 mtrs parts

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 14:23:04 UTC
From: w1dry
Topic: 7951 Message: 7951

Hi Steve,

Got my kit thank you . . . I would also like to build my second ATS 4 for 15 and 17 meters.
I would like to buy the parts from you as well.
Please let us know how to do that . . .

Cheers and good health for 2012

From your Lowell Tech buddy . . .

72 de Mike
W1DRY

7952. RE: [AT_Sprint] Re: Wanted: ATS3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 14:36:30 UTC
From: Ken Lotts
Topic: 7932 Message: 7952
Attachments: 1 described; binary payloads are missing from this source WARC

Awesome picture.. Yes the ATS3B is the undisputed King of ultra light "_every-gram-counts_" ham equipment.. I love mine!

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Fred Maas
Sent: Wednesday, January 11, 2012 7:19 AM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Wanted: ATS3B

Good choice ;-)

Fred - kt5x (WS0TA)

Looking for an ATS3B, kit or built, for lightweight SOTA work.

/eric KJ7AE

7953. ATS-3B overcurrent condition

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 19:28:03 UTC
From: tlcfarmer@arczip.com
Topic: 7953 Message: 7953

I built my ATS-3B a long time ago, probably 3 years ago or so. I finally decided to try to debug why it won't transmit.

Most everything appears to work except transmitting. The tuning goes up and down, it receives, although not very well. I can get the freq annunciation in the headphones, direct freq input works with the paddles, battery voltage can be read correctly and annunciated. When I press a paddle to transmit into a 50 ohm dummy load, the display changes to 'E' and it never outputs from the transmitter. Pressing 'menu' resets the overcurrent state and 'E' goes out. What worked before works again. I have inspected every solder joint in the TX and BPF areas and found none are shorting or look like opens.

I do not have a scope or signal injector, just a DMM.

Can anyone suggest where I should go next to look for the problem?

Lincoln
N9IN

7954. ATS-4, while supplies last?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 19:40:48 UTC
From: Owen B. Mehegan
Topic: 7954 Message: 7954

I'd like to buy an ATS-4b kit, but my wife is inclined to make me wait until my birthday (in June). I admit that I probably won't have time to build it before then, but I'm wondering how long they're likely to be available. Steve, do you know how long you're likely to be producing these?

--
"He is a dangerous mixture of sophistication and recklessness which makes one anxious about his influence on other boys."

7955. Re: ATS-3B overcurrent condition

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 19:55:52 UTC
From: tlcfarmer@arczip.com
Topic: 7953 Message: 7955

Oops, left this out of the original post:

The overcurrent condition('E') on TX exists even at a power supply voltage of 6v(reported as 5.4v by the 3B). Also, compared to my IC-7000, this thing is rather deaf on RX. Doesn't this indicate a short somewhere after the power amp, near the antenna connections? With the power off, the DMM measures infinite ohms across the antenna connection pcb pads.

Thanks

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com, tlcfarmer@... wrote:
>
> I built my ATS-3B a long time ago, probably 3 years ago or so. I finally decided to try to debug why it won't transmit.
>
> Most everything appears to work except transmitting. The tuning goes up and down, it receives, although not very well. I can get the freq annunciation in the headphones, direct freq input works with the paddles, battery voltage can be read correctly and annunciated. When I press a paddle to transmit into a 50 ohm dummy load, the display changes to 'E' and it never outputs from the transmitter. Pressing 'menu' resets the overcurrent state and 'E' goes out. What worked before works again. I have inspected every solder joint in the TX and BPF areas and found none are shorting or look like opens.
>
> I do not have a scope or signal injector, just a DMM.
>
> Can anyone suggest where I should go next to look for the problem?
>
> Lincoln
> N9IN
>

7956. Re: [AT_Sprint] Re: ATS-3B overcurrent condition

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 20:05:43 UTC
From: Michael Harnage
Topic: 7953 Message: 7956

Does it do this for every band?

First thing is to determine how much current it draws at idle (receive only).

Lift one side of L3 (which will disconnect the finals) and see if it still trips.

Isolating the problem is half the battle...

-mike/w1mt

----- Original Message -----
> When I press a paddle to transmit into a 50
> ohm dummy load, the display changes to 'E' and it never outputs from the
> transmitter.

7957. Re: ATS-3B overcurrent condition

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 20:42:24 UTC
From: tlcfarmer@arczip.com
Topic: 7953 Message: 7957

I only built the 40m band module, so I have not tested the others.

I lifted one side of L3 and now the 'E' does not show up and the sidetone is in the headphones. So that meant L3 had the proper connection.

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:
>
> Does it do this for every band?
>
> First thing is to determine how much current it draws at idle (receive only).
>
> Lift one side of L3 (which will disconnect the finals) and see if it still trips.
>
> Isolating the problem is half the battle...
>
> -mike/w1mt
>
>
>
> ----- Original Message -----
> > When I press a paddle to transmit into a 50
> > ohm dummy load, the display changes to 'E' and it never outputs from the
> > transmitter.
>

7958. Re: [AT_Sprint] Re: ATS-3B overcurrent condition

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 20:49:10 UTC
From: Michael Harnage
Topic: 7953 Message: 7958

It also means that it could be the 2n7000 finals or the filter board.

Still wonder what the idle current consumption is? If it's near 35ma then that's good. If it's more then you got a short somewhere that may not involve the rf amp.

Last ATS build I did I had lots of issues. All went away when I clean the flux off the boards (filter boards too). Might be worth a shot.

-mike

----- Original Message -----

>
> I only built the 40m band module, so I have not tested the others.
>
> I lifted one side of L3 and now the 'E' does not show up and the
> sidetone is in the headphones. So that meant L3 had the proper connection.
>

7959. Re: [AT_Sprint] ATS-4, while supplies last?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 21:16:29 UTC
From: Steven Weber
Topic: 7959 Message: 7959

The very last one shipped this morning. I don't know when I'll do more.
Likely it will be awhile and I might do something different instead.
Steve

> I'd like to buy an ATS-4b kit, but my wife is inclined to make me wait
> until my birthday (in June). I admit that I probably won't have time to
> build it before then, but I'm wondering how long they're likely to be
> available. Steve, do you know how long you're likely to be producing
> these?

7960. Re: ATS-3B overcurrent condition

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 21:25:10 UTC
From: tlcfarmer@arczip.com
Topic: 7953 Message: 7960

RX current is 38.5 mA

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:
>
> It also means that it could be the 2n7000 finals or the filter board.
>
> Still wonder what the idle current consumption is? If it's near 35ma then that's good. If it's more then you got a short somewhere that may not involve the rf amp.
>
> Last ATS build I did I had lots of issues. All went away when I clean the flux off the boards (filter boards too). Might be worth a shot.
>
> -mike
>
>
>
>
> ----- Original Message -----
>
> >
> > I only built the 40m band module, so I have not tested the others.
> >
> > I lifted one side of L3 and now the 'E' does not show up and the
> > sidetone is in the headphones. So that meant L3 had the proper connection.
> >
>

7961. Re: [AT_Sprint] Parts for 15&17 version?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 21:30:37 UTC
From: Steven Weber
Topic: 7950 Message: 7961

Yes, you need to order the parts and you do that by sending me 5 dollars...
Steve

> I'll try this again... I'm planning to build the 15&17-with-no-80-meters
> ATS-4B version. The manual says: "The extra filter parts needed to build
> both the 17 and 15 meter bands will be available from kd1jv for $5.00".
>
> Do I need to order these parts? If so, how do I go about this?
>

7962. What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 21:55:51 UTC
From: Steven
Topic: 7962 Message: 7962

Okay the last of the ATS-4B's shipped today. That will be it for a while. So, what to do next?

I'm thinking of revisiting the 3B. The new AGC circuit used on the 4B can be used to replace the AGC chip used in the 3B which became unobtanium, even though the new circuit takes up a lot more space.

The other problem was the bottom adjust trimmers used on the filter boards also became obsolete. Those can be replaced by SMT trimmers, though they are three times more expensive.

What I can't decide is how many bands to make it cover. I'm tempted to go single band to simplify things and keep the cost minimual. Or going back to 4 bands, with a 20M upper limit. Limiting to 20M reduces the Rx current by a significant amount. Or did I really spoil you guys by making 5 and 6 band rigs?

Suggestions and comments welcome, but keep them reasonable!! I'd like to go back to fitting this in an Altoids tin again :)

72, Steve KD1JV

7963. Re: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 22:00:33 UTC
From: Michael Goins
Topic: 7962 Message: 7963

Steve,

I'd like to see some monobanders. The cost should be less and I know when I'm in the field, I generally only use one or two bands at the most. I'd very much like to be able to shirt-pocket a rig for a single band in an altoids tin. Much fun.

Mike, k5wmg

On Fri, Jan 13, 2012 at 3:55 PM, Steven <steve.kd1jv@...> wrote:

> **
>
>
> Okay the last of the ATS-4B's shipped today. That will be it for a while.
> So, what to do next?
>
> I'm thinking of revisiting the 3B. The new AGC circuit used on the 4B can
> be used to replace the AGC chip used in the 3B which became unobtanium,
> even though the new circuit takes up a lot more space.
>
> The other problem was the bottom adjust trimmers used on the filter boards
> also became obsolete. Those can be replaced by SMT trimmers, though they
> are three times more expensive.
>
> What I can't decide is how many bands to make it cover. I'm tempted to go
> single band to simplify things and keep the cost minimual. Or going back to
> 4 bands, with a 20M upper limit. Limiting to 20M reduces the Rx current by
> a significant amount. Or did I really spoil you guys by making 5 and 6 band
> rigs?
>
> Suggestions and comments welcome, but keep them reasonable!! I'd like to
> go back to fitting this in an Altoids tin again :)
>
> 72, Steve KD1JV
>
>
>

7964. RE: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 22:05:28 UTC
From: Mike Baker
Topic: 7962 Message: 7964

Hi Steve,

Well, with the upper bands starting to take off, having it go
to 10M would be nice, OR even 6M!

For me, having 160 is a waste of time as I have no room for
an antenna but I am sure there would be those who would like it as well.

Having had a ATS3, a bit more volume and a volume control in
the rig would be a bonus. I put together that encoder dial kit that was
offered for it and I must admit it was nice having a real "knob". Call me
old fashioned. Maybe just keep the knob as a home station option would keep
the back pack folks happy due to the reduced weight.

Keep up the good work.. It is nice to see such a flourishing
cottage business as yours can still exist in this economy.

Best of Luck and DX in 2012.

Mike Baker K7DD

<mailto:K7dd@...> K7dd@...

All QSO's are uploaded to LOTW and EQSL.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of Steven
Sent: Friday, January 13, 2012 2:56 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] What to do next?

Okay the last of the ATS-4B's shipped today. That will be it for a while.
So, what to do next?

I'm thinking of revisiting the 3B. The new AGC circuit used on the 4B can be
used to replace the AGC chip used in the 3B which became unobtanium, even
though the new circuit takes up a lot more space.

The other problem was the bottom adjust trimmers used on the filter boards
also became obsolete. Those can be replaced by SMT trimmers, though they are
three times more expensive.

What I can't decide is how many bands to make it cover. I'm tempted to go
single band to simplify things and keep the cost minimual. Or going back to
4 bands, with a 20M upper limit. Limiting to 20M reduces the Rx current by a
significant amount. Or did I really spoil you guys by making 5 and 6 band
rigs?

Suggestions and comments welcome, but keep them reasonable!! I'd like to go back to fitting this in an Altoids tin again :)

72, Steve KD1JV

7965. RE: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 22:14:57 UTC
From: Ken Lotts
Topic: 7962 Message: 7965

Steve,
Just as a wild and crazy thought.. It might be worth considering using the Si570 rather than the AD9834 (see http://cbjohn.com/aa0zz/PPLL/DaughtercardManual.pdf). That would allow perhaps even lower current drain and much higher freq coverage. I personally LOVE the fact that you supply source code with your kits (thank you, thank you, thank you!) I am aspiring to dig into it and add some flexability to it's keyer (like weight etc). As another wish, I liked the original ATS3 ability to go wideband via those solid state relays.

Ken Lotts
aa7jc

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com]On Behalf Of Steven
Sent: Friday, January 13, 2012 2:56 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] What to do next?

Okay the last of the ATS-4B's shipped today. That will be it for a while. So, what to do next?

I'm thinking of revisiting the 3B. The new AGC circuit used on the 4B can be used to replace the AGC chip used in the 3B which became unobtanium, even though the new circuit takes up a lot more space.

The other problem was the bottom adjust trimmers used on the filter boards also became obsolete. Those can be replaced by SMT trimmers, though they are three times more expensive.

What I can't decide is how many bands to make it cover. I'm tempted to go single band to simplify things and keep the cost minimual. Or going back to 4 bands, with a 20M upper limit. Limiting to 20M reduces the Rx current by a significant amount. Or did I really spoil you guys by making 5 and 6 band rigs?

Suggestions and comments welcome, but keep them reasonable!! I'd like to go back to fitting this in an Altoids tin again :)

72, Steve KD1JV

7966. Re: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 22:12:45 UTC
From: Michael Harnage
Topic: 7962 Message: 7966

I am partial to the 3 series precisely because it fits in an altoids tin. Multi band is a must for me and 4 bands is sufficient. I can live without the led so you can use that space for the agc. :) I don't like the tiny power plugs and would prefer something more standard but understand the size requirements. I am CW only as well so the digital stuff does nothing for me.

JMHO, not sure my ideas transfer to most so don't know how it would sell?

Looking forward to whatever you come up with.

73 de w1mt/mike

----- Original Message -----

> So, what to do next?
>

7967. Re: [AT_Sprint] ATS-4, while supplies last?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 22:12:53 UTC
From: lmlangenfeld tds.net
Topic: 7959 Message: 7967

Yep -- and some of us are waiting to hear more about the 160m rig.

Mark -- WA9ETW

On Fri, Jan 13, 2012 at 3:16 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> ... and I might do something different instead.
> Steve
>
>

7968. Re: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 22:26:17 UTC
From: Colin Tuckley
Topic: 7962 Message: 7968

On 13/01/2012, Steven <steve.kd1jv@...> wrote:

> I'm thinking of revisiting the 3B.

I'd be happy with that :)

> What I can't decide is how many bands to make it cover. I'm tempted to go
> single band to simplify things and keep the cost minimual. Or going back to
> 4 bands, with a 20M upper limit. Limiting to 20M reduces the Rx current by a
> significant amount. Or did I really spoil you guys by making 5 and 6 band
> rigs?

I'm guessing that 15M was the current hog, how about 17M as the highest band?

I liked the interchangeable band modules - you can carry as many or as
few as you want/need.

> Suggestions and comments welcome, but keep them reasonable!! I'd like to go
> back to fitting this in an Altoids tin again :)

One thing I'd like to see would be the UART pins brought out to a
header, it could be used for loading and saving the memories and
calibration data and also maybe for doing data modes from a smart
phone or tablet.

Also, on the software side, how about support for the new "Opera" data
mode, it's starting to be used on 30m as well as on the LF bands and
doesn't need audio modulation, just Tx keying.

73

Colin G8TMV

--
Colin Tuckley | colintu@... | +44(0)7799 143369
PGP/GnuPG Key Id: 0x1B3045CE

7969. What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 22:31:37 UTC
From: Fred Maas
Topic: 7962 Message: 7969

First off, Steve, I LOVE both the ATS3B which did 40 mtn peaks with me last summer, and I am loving the ATS4B which is much more usable if changing frequencies much, a lot in the three more ounces.

What would I like???

... batteries are so small and light now. I have been intrigued by the Class E amplifier I saw one college group was experimenting with, had about three parts, the tank was actually etched into the PC board. But it was 200 watts ...

I keep wondering about ... a 20 watt class E, 20 mtr only, boots for the ATS family of rigs...

My seven ounce 2.2 AH LiPO would power it for hours. Two doublings, two S-units, much simpler than carrying and erecting a five element beam, ... RCA jacks on either end, direct plug in to the ATS on one end, a mini-tuner on the other.

(Wasn't there going to be some sort of PSK31 add-on for the ATS4B ???)

73, Fred - kt5x

W5YA / qrp

WS0TA on mtn peaks

Okay the last of the ATS-4B's shipped today. That will be it for a while. So, what to do next?

I'm thinking of revisiting the 3B. The new AGC circuit used on the 4B can be used to replace the AGC chip used in the 3B which became unobtanium, even though the new circuit takes up a lot more space.

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Suggestions and comments welcome, but keep them reasonable!! I'd like to go back to fitting this in an Altoids tin again :)

72, Steve KD1JV

7970. RE: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 22:43:09 UTC
From: Ken Lotts
Topic: 7962 Message: 7970

Ditto on the CW only.. That is why I would love some extensive CW customization abilities.
The digi modes don't interest me at all especially out on the trail (which is where this radio shines).
de Ken Lotts, AA7JC

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com]On Behalf Of Michael Harnage
Sent: Friday, January 13, 2012 3:13 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] What to do next?

I am partial to the 3 series precisely because it fits in an altoids tin. Multi band is a must for me and 4 bands is sufficient. I can live without the led so you can use that space for the agc. :) I don't like the tiny power plugs and would prefer something more standard but understand the size requirements. I am CW only as well so the digital stuff does nothing for me.

JMHO, not sure my ideas transfer to most so don't know how it would sell?

Looking forward to whatever you come up with.

73 de w1mt/mike

----- Original Message -----

> So, what to do next?
>

7971. RE: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 22:44:52 UTC
From: Ken Lotts
Topic: 7962 Message: 7971

Yes! That is the other thing... a class E amp like the one in the norcal 2030 .. Thanks!

ken Lotts AA7JC

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com]On Behalf Of Fred Maas
Sent: Friday, January 13, 2012 3:32 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] What to do next?

First off, Steve, I LOVE both the ATS3B which did 40 mtn peaks with me last summer, and I am loving the ATS4B which is much more usable if changing frequencies much, a lot in the three more ounces.

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I keep wondering about ... a 20 watt class E, 20 mtr only, boots for the ATS family of rigs...

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(Wasn't there going to be some sort of PSK31 add-on for the ATS4B ???)

73, Fred - kt5x

W5YA / qrp

WS0TA on mtn peaks

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Suggestions and comments welcome, but keep them reasonable!! I'd like to go back to fitting this in an Altoids tin again :)

72, Steve KD1JV

7972. Last Minute Reminder: MIQRP Club January CW Contest

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-13 23:01:29 UTC
From: Hank Greeb
Topic: 7972 Message: 7972

Last Minute Reminder. The Michigan QRP Club January CW Contest will be held beginning 1200Z Saturday 14 January 2012 and ending 2359Z Sunday, 15 January 2012. Yup, 36 hours of possible contacts. Contacts between stations all over the world - you needn't be a Michigan QRP Club member - just an interest in operating low power.
For full details see http://www.miqrp.org/contest.html

Note that this contest is held concurrent with the North American QSO Party. This is a "full blown" contest - quite a few station on, so "picking out signals" and making contacts is a breeze! I've found that you can usually convince NAQP ops to give you the info needed for the MiQRP contest in exchange for your info for the NAQP. See
http://www.ncjweb.com/naqprules.php
for details of this contest.

There are two other concurrent contests being held on the same weekend the Peace Messenger Cities contest
See http://tinyurl.com/2afb3f7 for rules
There were no results posted for 2011, so whether this contest is still viable is in question.

Also the "Lions Hunting in the Air" contest is advertised,
See: http://lionshuntingintheair.lionwap.org/
The last info on this contest is dated 2010, so it may or may not exist

72/73 de n8xx Hg

7973. Re: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 00:31:20 UTC
From: Milton A Riutort
Topic: 7962 Message: 7973

Hi to all:

About revisiting the 3B, I need to say that the keyer programming may be check. I always found that the key response is different than all my other keyers. By some unknown reason I miss the correct morse creation specially when going from di to da. I can transmit with it, but is always harder. The paddle does not response the same way like my others keyers. The ATS4 is easer on mode B than the 3B. Hard to explain, but something may be different on this.

The size matter, but the box need to protect well the radio, specially when portable. For this the ATS4 box is better than the Altoid one. Not exactly pocket size but more secure.

AGC improvement, welcome!

Best 73 and HNY 2012,
Milton
NP4KT

Sent from my iPhone

On Jan 13, 2012, at 5:55 PM, "Steven" <steve.kd1jv@...> wrote:

> Okay the last of the ATS-4B's shipped today. That will be it for a while. So, what to do next?
>
> I'm thinking of revisiting the 3B. The new AGC circuit used on the 4B can be used to replace the AGC chip used in the 3B which became unobtanium, even though the new circuit takes up a lot more space.
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> The other problem was the bottom adjust trimmers used on the filter boards also became obsolete. Those can be replaced by SMT trimmers, though they are three times more expensive.
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>
> Suggestions and comments welcome, but keep them reasonable!! I'd like to go back to fitting this in an Altoids tin again :)
>
> 72, Steve KD1JV
>
>

7974. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 01:09:40 UTC
From: mbhayden
Topic: 7962 Message: 7974

I have a lot of radio stuff but the 3B is one of my prize possessions, so I would like to see something similar to it or a revision of it. I really like the small band boards, as has already been pointed out by others. I take just what I need and the rest of the bands stay home. Five or six bands are important to me (stopping at 15), as it gives interesting day/night options and different operating challenges. I am totally CW oriented.

The Altoids tin size is perfect. The identical form factor implemented as a die cast or machined enclosure would rock. My only concern with a Real Altoids Tin is that it's not so strong when in the field. I stepped on mine once.

I personally could do without the single digit LED, with maybe some smt LEDS instead to indicate important status states or modes.

I, too, wish the power connector was bigger. It's very fragile, and I have pulled the center out of mine roughing around.

The 4 Series is an amazing radio to be sure, but in some ways I really think you hit the sweet spot with the 3B.

Mike AK3F

7975. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 01:18:39 UTC
From: Skyridr
Topic: 7962 Message: 7975

Steve- Thanks for the super kits. For the new ats3, I suggest 80 and 40 meters. Altoid size is OK, but I would like to see a more robust enclosure as an option.
Wendell N7WM

--- In AT_Sprint@yahoogroups.com, mbhayden <mbhayden@...> wrote:
>
> I have a lot of radio stuff but the 3B is one of my prize possessions, so I
> would like to see something similar to it or a revision of it. I really
> like the small band boards, as has already been pointed out by others. I
> take just what I need and the rest of the bands stay home. Five or six
> bands are important to me (stopping at 15), as it gives interesting
> day/night options and different operating challenges. I am totally CW
> oriented.
>
> The Altoids tin size is perfect. The identical form factor implemented as a
> die cast or machined enclosure would rock. My only concern with a Real
> Altoids Tin is that it's not so strong when in the field. I stepped on
> mine once.
>
> I personally could do without the single digit LED, with maybe some smt
> LEDS instead to indicate important status states or modes.
>
> I, too, wish the power connector was bigger. It's very fragile, and I have
> pulled the center out of mine roughing around.
>
> The 4 Series is an amazing radio to be sure, but in some ways I really
> think you hit the sweet spot with the 3B.
>
> Mike AK3F
>

7976. Jennifer Pharr Davis

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 01:26:08 UTC
From: Hank Greeb
Topic: 7976 Message: 7976

Today my wife and I were privileged to attend a lecture by Jennifer Pharr Davis at Calvin College in Grand Rapids, Michigan during their annual "January Series" (See http://www.calvin.edu/january for details of the entire series.) In case you've never heard of her, she is a "trail walker extraordinaire." One of her greatest accomplishments was to set a new record for traversing the 2181 miles of the Appalachian Trail for both men and women. She made this trek in 2011. aided by her husband who provided ground support, moral support, and logistical support. She made it in "46 grueling days" (in her own words.) She had made two other trips, the first in 2004, which was her very first back packing trip, and set a new record for female trekkers of 56 days a few years later.

She has been named "Adventurer of the Year" for this year by National Geographic Society. She has written a book, "Becoming Odessa." Don't know what else I can say.

Keep an eye out for her talks, she's a very good, inspirational and motivational speaker.

73 de n8xx Hg

7977. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 01:32:34 UTC
From: Hank Greeb
Topic: 7962 Message: 7977

There is a more robust enclosure. It's offered by American Morse? It's
die cast aluminium, slightly larger than an Altoids Tin, a bit heavier,
but considerably more rugged. See http://americanmorse.com/aa1.htm
It's currently out of stock, but perhaps we could encourage some
production if there's enough interest.

For me, you can take out the keying feature, but figure out a way to
generate RF @ 28 MHz without consuming more power. Or, figure a single
band unit with VFO for 28 MHz.

72/73 de n8xx Hg

On 1/13/2012 8:18 PM, Skyridr wrote:
> Steve- Thanks for the super kits. For the new ats3, I suggest 80 and 40 meters. Altoid size is OK, but I would like to see a more robust enclosure as an option.
> Wendell N7WM

7978. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 01:44:35 UTC
From: Bill Noyce
Topic: 7962 Message: 7978

My wish list:
Altoids size.
Wide filter mode (yes, I have used ATS3 in cross-mode QSOs).
Include the op-amp needed for digital input (my smartphone can't drive the ATS3b directly) -- perhaps a separate jack.
Include bands the 3b doesn't: 160 & 60, plus 10 & 12 meters -- needs SI570?
Configurable frequency memories, especially if you include 60m.
Don't need the 1-digit display but it's cute.

-- Bill, AB1AV
On Jan 13, 2012 8:09 PM, "mbhayden" <mbhayden@...> wrote:

> **
>
>
> I have a lot of radio stuff but the 3B is one of my prize possessions, so
> I would like to see something similar to it or a revision of it. I really
> like the small band boards, as has already been pointed out by others. I
> take just what I need and the rest of the bands stay home. Five or six
> bands are important to me (stopping at 15), as it gives interesting
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> mine once.
>
> I personally could do without the single digit LED, with maybe some smt
> LEDS instead to indicate important status states or modes.
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> I, too, wish the power connector was bigger. It's very fragile, and I
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>
> The 4 Series is an amazing radio to be sure, but in some ways I really
> think you hit the sweet spot with the 3B.
>
> Mike AK3F
>
>

7979. Re: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 01:50:36 UTC
From: Stephen Wandling
Topic: 7962 Message: 7979

A feature of the earlier ATS3 rigs was the ability to switch out the crystal filter in receive to allow SSB reception.

I'm not sure how many folks used that cross mode feature, but here in British Columbia the BC Emergency Net meets on 3729 most evenings. I have checked in cross mode with my Icom, but having the ability on a 3B would make "the world's greatest little 6 band rig" even more useful for emergency use.

I would be disappointed if you changed the form factor for the 3B; is has to go in a mint tin.

I like the single digit display and I keep the CW turned off. I also like the plug in modules; an easy way to have so many bands.

~~~~~~~~~~~
If you wanted to design a *single band rig* that I might buy (I already have an ATS3-B) it should be CW/SSB in the same mint tin. Maybe you could plug a 'skype' headset into the paddle jack? 80M would be my choice, but if you had a few models I might buy another band as well. Of course 6 bands, with the plug in band modules would be the best for this dual mode rig.

72
Stephen
VE7NSD

On 13/01/2012 1:55 PM, Steven wrote:
> Okay the last of the ATS-4B's shipped today. That will be it for a while. So, what to do next?
>
> I'm thinking of revisiting the 3B. The new AGC circuit used on the 4B can be used to replace the AGC chip used in the 3B which became unobtanium, even though the new circuit takes up a lot more space.
>
> The other problem was the bottom adjust trimmers used on the filter boards also became obsolete. Those can be replaced by SMT trimmers, though they are three times more expensive.
>
> What I can't decide is how many bands to make it cover. I'm tempted to go single band to simplify things and keep the cost minimual. Or going back to 4 bands, with a 20M upper limit. Limiting to 20M reduces the Rx current by a significant amount. Or did I really spoil you guys by making 5 and 6 band rigs?
>
> Suggestions and comments welcome, but keep them reasonable!! I'd like to go back to fitting this in an Altoids tin again :)
~~~~~~~~~~~

>
> 72, Steve KD1JV
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> Yahoo! Groups Links
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7980. RE: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 01:49:57 UTC
From: Andy Gulbrandsen
Topic: 7962 Message: 7980

Hi Steve,

I really like the idea of a 6m rig in a similar form factor to the ats3 rigs. Maybe CW and sideband? Buckeye Shape Form makes some really slick little extrusions that would make great chassis that double as heat sinks. Thanks for all the great work that you do.

Regards,

Andrew
KE7AHJ

-------- Original message --------
Subject: [AT_Sprint] What to do next?
From: Steven <steve.kd1jv@gmail.com>
To: AT_Sprint@yahoogroups.com
CC:

Okay the last of the ATS-4B's shipped today. That will be it for a while. So, what to do next?

I'm thinking of revisiting the 3B. The new AGC circuit used on the 4B can be used to replace the AGC chip used in the 3B which became unobtanium, even though the new circuit takes up a lot more space.

The other problem was the bottom adjust trimmers used on the filter boards also became obsolete. Those can be replaced by SMT trimmers, though they are three times more expensive.

What I can't decide is how many bands to make it cover. I'm tempted to go single band to simplify things and keep the cost minimual. Or going back to 4 bands, with a 20M upper limit. Limiting to 20M reduces the Rx current by a significant amount. Or did I really spoil you guys by making 5 and 6 band rigs?

Suggestions and comments welcome, but keep them reasonable!! I'd like to go back to fitting this in an Altoids tin again :)

72, Steve KD1JV

7981. Re: [AT_Sprint] Jennifer Pharr Davis

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 01:54:00 UTC
From: Chris Fowler
Topic: 7976 Message: 7981

"Skinny as a rail".... :)

7982. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 01:56:51 UTC
From: dyarnes1
Topic: 7962 Message: 7982

Steve and All,

I'll put in my 2 cents worth about how many bands. Personally, I think having 5 or 6 bands is a luxury--nice, but not all that necessary. Your timing on doing that was pretty good, considering the fact that a couple of the higher bands open up a bit more, but later we will be back to a 20 meter max with some 17 openings. Personally, I don't care much about 80 meters either--used to love that band, but that was eons ago. For a trail radio, 80 meter antennas are tough to deal with anyway. So, I vote for 3 bands at least, and maybe a 4th.

I hesitate to say anything critical about you just going back to monobanders, but I've already got a ton of those. Of course, I don't know what you have in mind, and it might be really exciting. So, I won't say much else about that.

The folks who are into digital, like PSK31, JT65, etc., are apt to have a wish list.

I've never been disappointed in anything you came up with, so whatever comes next will probably be a winner. I do think you should seriously consider another batch of ATS-4B's though, since I strongly suspect there are still a fair number of folks out there who were left out. Maybe a little hiatus is in order, to let a few more of these get built and operating, and for a few fence sitters to screw up their courage to attack this kind of project. I just hope I don't goof mine up! Hi. I bet if you took 50 of them to Dayton you would sell them all!

Dave W7AQK

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Okay the last of the ATS-4B's shipped today. That will be it for a while. So, what to do next?
>
> I'm thinking of revisiting the 3B. The new AGC circuit used on the 4B can be used to replace the AGC chip used in the 3B which became unobtanium, even though the new circuit takes up a lot more space.
>
> The other problem was the bottom adjust trimmers used on the filter boards also became obsolete. Those can be replaced by SMT trimmers, though they are three times more expensive.
>
> What I can't decide is how many bands to make it cover. I'm tempted to go single band to simplify things and keep the cost minimual. Or going back to 4 bands, with a 20M upper limit. Limiting to 20M reduces the Rx current by a significant amount. Or did I really spoil you guys by making 5 and 6 band rigs?
>
> Suggestions and comments welcome, but keep them reasonable!! I'd like to go back to fitting this in an Altoids tin again :)

>
> 72, Steve KD1JV
>

7983. RFTB Sunday Night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 01:58:51 UTC
From: Larry Makoski
Topic: 7983 Message: 7983

Sunday night is the January 2012 edition of the Run For The Bacon. That friendly lil' ol' QRP Sprint sponsored by your friends at the Flying Pigs QRP Amateur Radio Club International. Join us for a spell to have some fun and to say "Hi" to friends, old and new.

The time is the same as always:

East coast - 9:00 to 11:00 PM local time
Midwest - 8:00 to 10:00 PM local time
Rockies - 7:00 to 9:00 PM local time
West coast - 6:00 to 8:00 PM local time

The rules are at:

http://fpqrp.org/pigrun/

Something new for the New Year - make sure to use the Autolog feature to enter your score after the Sprint. This Wednesday evening, I will take all the callsigns that enter their score into the Autolog and will put them in a hat. A random call will be drawn and the lucky winner will receive a Flying Pigs wristwatch. You don't have to be the highest score to win - but you do have to enter the Sprint to win!

73 de Larry W2LJ
FP# 612
QRP ARCI# 4488

7984. Re: [AT_Sprint] Jennifer Pharr Davis

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 02:00:00 UTC
From: Hank Greeb
Topic: 7976 Message: 7984

Yep. She said that "eating 6500 calories per day on her latest trek on the Trail was a chore and a challenge." She needed that many calories because of the amount of energy it took to do almost 50 miles per day along the trail. She also said that in her formative years she was sometimes concerned that while other girls were building chests, her body was building thigh muscles. But, her enthusiasm for "walking the trails" in the US and other parts of the world was obvious and probably contagious. As I said before, if you get a chance to hear one of her presentations, go for it!

I know I won't ever cover 2184 miles of walking in any one year, much less in a summer season.

72/73 de n8xx Hg

On 1/13/2012 8:54 PM, Chris Fowler wrote:
> "Skinny as a rail".... :)
>

7985. Re: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 02:04:27 UTC
From: Steven Weber
Topic: 7962 Message: 7985

Thanks for the ideas.

First, the Si570 suggestion. Couple of problems with that. 1, it only goes down to 10 MHz and 2, it draws over 100 ma. That's twice the total receiver current of the -4's. Plus it's pretty expensive, hard to get and a pain to program.

20W class E amp - no. Too touchy and I don't want that responsability.

Single/multi ? I guess it only makes sense to stick with multi.

I've already removed the phone and power jack from the board to make room. I can use the larger power plug now used with the 4's. This unfortunately requires notching the edge of the lid a little to clear the mounting nut.

I'm guessing that 15M was the current hog, how about 17M as the highest band?

I can use a 50 MHz clock for up to 20, any higher and it needs to be 60 MHz. That extra 10 MHz of clock speed causes the big increase in current.

Altoids vs Custom case

The Altoids tin has proven it's self as a rugged enough case. At least one 3B I know of was carried in a backpack for most, if not all, the Appalachian Trail and a number of them have been carried for lesser, but still very impressive distances.

Another advatage of the Altoids tin is the great job many have done to customize thier case.

I can't add a volume control to an Altoids sized rig, there just isn't enough room. I can however, make the minimum level at which the AGC kicks in adjustable, so one can set the max volume to thier perticular thrushold of pain. And of course, there are volume controls which can be added in line with headphones available.

Steve

7986. Re: [AT_Sprint] Jennifer Pharr Davis

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 02:08:40 UTC
From: Steven Weber
Topic: 7976 Message: 7986

Yes, she is quite well know in the hiking circles and I followed her progress on various internet forums. Quite remarkable and an amazing feat.

Steve

> Today my wife and I were privileged to attend a lecture by Jennifer
> Pharr Davis at Calvin College in Grand Rapids, Michigan during their
> annual "January Series" (See http://www.calvin.edu/january for details
> of the entire series.) In case you've never heard of her, she is a

7987. Re: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 02:13:05 UTC
From: Steven Weber
Topic: 7962 Message: 7987

I really like the idea of a 6m rig in a similar form factor to the ats3 rigs. Maybe CW and sideband? Buckeye Shape Form makes some really slick little extrusions that would make great chassis that double as heat sinks. Thanks for all the great work that you do.

Anything above 15 or SSB is out of the question. Maybe commercially built by robots it could fit into a tin, but no way could something hand made with those features fit into a tin.

7988. Re: [AT_Sprint] Jennifer Pharr Davis

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 02:14:54 UTC
From: Steven Weber
Topic: 7976 Message: 7988

> "Skinny as a rail".... :)
>
You walk 2200 miles in 46 days and you'd be pretty skinny too :)
Actually, I think you have to be tall, skinny and young to pull something like that off.
Steve

7989. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 02:42:43 UTC
From: WA0ITP
Topic: 7962 Message: 7989

I love my ATS3, and it's had plenty of use, both /P and in the shack.

IMHO the Altoids is the perfect enclosure for it.

I've replaced the finals 4 times due to between the ears tuning problems. How about automatically switching in a resistor or a string of diodes, or lower voltage regulator when in the Tune position?

I like 160, but it might be difficult getting 160m windings on a T30-2.

Oh, the finals need replacing agn :o(BUT it's a really great /P rig and I'll continue to take it along.

Back to the bench, Winter's too valuable to waste.
I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

7990. Re: [AT_Sprint] Jennifer Pharr Davis

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 02:53:05 UTC
From: Lee Hiers
Topic: 7976 Message: 7990

On Fri, Jan 13, 2012 at 9:14 PM, Steven Weber <steve.kd1jv@...> wrote:

You walk 2200 miles in 46 days and you'd be pretty skinny too :)
>

Yeah, but when would you have time to deploy antennas and play with your
ATS? ;-)

--
Lee Hiers, AA4GA
www.aa4ga.com

7991. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 04:05:46 UTC
From: Paul Mateer
Topic: 7962 Message: 7991

Mono-band would be nice for us without deep pockets.....

On Fri, Jan 13, 2012 at 8:42 PM, WA0ITP <wa0itp@...> wrote:

> **
>
>
> **
> *I love my ATS3, and it's had plenty of use, both /P and in the shack. *
> **
> *IMHO the Altoids is the perfect enclosure for it. *
> **
> *I've replaced the finals 4 times due to between the ears tuning
> problems. How about automatically switching in a resistor or a string
> of diodes, or lower voltage regulator when in the Tune position? *
> **
> *I like 160, but it might be difficult getting 160m windings on a T30-2.*
> **
> *Oh, the finals need replacing agn :o(BUT it's a really great /P rig
> and I'll continue to take it along.*
> **
> ---
> Back to the bench, Winter's too valuable to waste.
> I love this radio stuff !
> 72, 73 Terry, WAØITP
> wa0itp@...
> www.wa0itp.com
> www.4sqrp.com
> www.qrpspots.com
>
>
>
>
>

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

7992. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 04:19:32 UTC
From: Hank Greeb
Topic: 7962 Message: 7992

Consider a SWR bridge and a feedback circuit which would reduce the drive and/or power output so the finals wouldn't be damaged. This has been the "standard" for many (most?) commercial rigs since the 1980's.

Whether this would be possible with a simple rig like the AT-Sprint is a question beyond my technical understanding.

The easiest thing to do would be to use 9 VDC and ~3 watts out, instead of trying to get another 2 dB or so @ 12 VDC and ~ 5 watts. That's what I've done, and have never had a problem blowing finals.

72/73 de n8xx Hg

On 1/13/2012 9:42 PM, WA0ITP wrote:
>
>
> *I love my ATS3, and it's had plenty of use, both /P and in the shack. *
> **
> *IMHO the Altoids is the perfect enclosure for it. *
> **
> *I've replaced the finals 4 times due to between the ears tuning
> problems. How about automatically switching in a resistor or a string
> of diodes, or lower voltage regulator when in the Tune position? *
> **
> *I like 160, but it might be difficult getting 160m windings on a T30-2.*
> **
> *Oh, the finals need replacing agn :o(BUT it's a really great /P rig
> and I'll continue to take it along.*

7993. RE: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 04:42:13 UTC
From: Dale Putnam
Topic: 7962 Message: 7993

Hi Steve,

For my 2 cents worth... how about including a "tune-up" ciruit... like a 5 ohm resistor, with a shorting switch... for lower power and for tuneups.

Or.. a current limit for the finals... settable, in software... or with a button for "tuneup" and lower power/longer battery life.

Second.. (you didn't really think I'd let you off with just one did you?) how about a 160 - 80-6o-40 and 20 all cw. If not nice lose 20, also the other end... 40-30-20-17-15 or trade 17 for 10 with 40-30-20-15-10. All cw.

psk encode/decode. input with paddle, pretty cool.

I really enjoy the boxes the at4 comes with. An option, of transparent colors? Applied by owner, not you.

I'm thinkin of washing one in Simple Green... anodizing...??

An add on BLT type tuner... plug in..attach to.. stack on... or cable to... with the Tayloe bridge.

But getting that to play on 160 almost dictates a single band effort. Or Plug and play coils/caps.

ok.. I'll stop, for now.

Isn't this fun?

--... ...-- Dale - WC7S in Wy

7994. Re: The flash cable

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 04:49:21 UTC
From: rasteenb
Topic: 7919 Message: 7994

Thanks to the tip in the construction manual about loosening the socket before inserting the display, I've had no problem with removal/re-installation.

I don't know anything about programming microprocessors, with the exception of Arduino, but I'm trying to learn. Depending on my progress, I may be hooking up the cable again. Or, I may never touch it. Time will tell.

The pins in my original plug turned out to be too big for the existing holes, hence my approach.

Cheers,
Rob

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> If you just got the kit, you probably have the bug free firmware. I use .025
> square SIP pins for my header, which provide a reasonably snug fit into the
> pads, so no socket is needed and I access from the bottom of the board so
> the display does not have to be removed.
>
> Unless you want to play with the firmware, you don't need to up date it at
> all or maybe once.
>
> Steve
>
>
> > Just received my kit Monday, first ATS kit for me. I read with interest
> > the email below from Rob, KA8JBY on the flash cable construction. I have
> > a couple questions. First, the manual talks about the display being
> > difficult to remove after being inserted. If you mount the programming
> > port on top, as shown, you have to remove the display, am I looking for
> > trouble? Second, how often would we have a need to update the firmware?
>

7995. Re: Parts for 15&17 version?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 04:49:53 UTC
From: Mike
Topic: 7950 Message: 7995

Five bucks is in the mail. Thanks.

Mike

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Yes, you need to order the parts and you do that by sending me 5 dollars...
> Steve
>
> > I'll try this again... I'm planning to build the 15&17-with-no-80-meters
> > ATS-4B version. The manual says: "The extra filter parts needed to build
> > both the 17 and 15 meter bands will be available from kd1jv for $5.00".
> >
> > Do I need to order these parts? If so, how do I go about this?
> >
>

7996. Re: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 05:32:51 UTC
From: Steven Carr
Topic: 7962 Message: 7996

Steve,

Thanks for asking, glad to see you are up for another project!

What I'd like to see in a Trail Friendly Radio...

Low power operation is necessary to minimize battery consumption so CW is definitely preferred.

On the trail a radio by itself is pretty useless since you are not likely to have an ideal antenna, so an integrated antenna tuner would go a long way towards making this a Trail Friendly Radio System.

Having to carry antenna wire is bad enough, I certainly don't want to carry feed line as well...I prefer losing the feed line and using EFHW (End Fed Half Wave). The other benefit of EFHW is that you only have to string one significant antenna wire, not two...better for simply tossing over the cliff or using with a balloon/kite/single tree setup, and there is just one wire needing to exit the tent/shelter. A EFHW tuner is needed to allow this.

Reasonably reliable communication within a 300 mile radius is more important to me on the trail than dx, so being able to operate NVIS (Near Vertical Incidence Skywave) is critical...which means 40 or 80 during the day and 80 or 160 during the night (but 160 is too much antenna!). An added trail bonus is that NVIS is compatible with operating in a valley and using an antenna hastily strung near the ground.

No point in carrying a broken radio...so the power/antenna/earphone/key connectors need to be solid and reliable.

On the trail it is best to consolidate your backpacking energy needs to AA batteries, and therefore that is what I'd expect to use. I'm thinking 8 AA lithium batteries would be reasonable...more than that is too bulky/heavy/costly and less will require compromising on power output. For more solid 5w performance I'd be willing to sacrifice operation at lower input voltages (if that helps).

For these reasons I'd like to see a 2-tin radio...CW on 40 and 80 (minimum) with solid 5w capability in one tin, and a EFHW tuner in the other tin secured back-to-back with the first tin. Integrated SWR meter/detector, with extra points awarded for making the tuner auto-tuning. The radio should be reasonably ruggedized in terms of connectors, controls, ESD (with tins closed), and load impedence. Full CW band operation and excellent filtering are strongly desired. There needs to be a 50ohm antenna option for operating at home, but this doesn't need to run through the tuner if the tuner is intended for EFHW.

Power requirements must be compatible with being directly powered by 8 lithium AA batteries ("13.8Vdc", not 12Vdc).

Steve (ae4yq)

On 01/13/2012 04:55 PM, Steven wrote:
>
> Okay the last of the ATS-4B's shipped today. That will be it for a
> while. So, what to do next?
>
> I'm thinking of revisiting the 3B. The new AGC circuit used on the 4B
> can be used to replace the AGC chip used in the 3B which became
> unobtanium, even though the new circuit takes up a lot more space.
>
> The other problem was the bottom adjust trimmers used on the filter
> boards also became obsolete. Those can be replaced by SMT trimmers,
> though they are three times more expensive.
>
> What I can't decide is how many bands to make it cover. I'm tempted to
> go single band to simplify things and keep the cost minimual. Or going
> back to 4 bands, with a 20M upper limit. Limiting to 20M reduces the
> Rx current by a significant amount. Or did I really spoil you guys by
> making 5 and 6 band rigs?
>
> Suggestions and comments welcome, but keep them reasonable!! I'd like
> to go back to fitting this in an Altoids tin again :)
>
> 72, Steve KD1JV
>
>

7997. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 05:40:20 UTC
From: Steven Carr
Topic: 7962 Message: 7997

I thought cw wasn't legal on 60...

On 01/13/2012 11:42 PM, Dale Putnam wrote:
>
> Hi Steve,
> For my 2 cents worth... how about including a "tune-up" ciruit...
> like a 5 ohm resistor, with a shorting switch... for lower power and
> for tuneups.
> Or.. a current limit for the finals... settable, in software... or
> with a button for "tuneup" and lower power/longer battery life.
>
> Second.. (you didn't really think I'd let you off with just one did
> you?) how about a 160 - 80-6o-40 and 20 all cw. If not nice lose 20,
> also the other end... 40-30-20-17-15 or trade 17 for 10 with
> 40-30-20-15-10. All cw.
>
> psk encode/decode. input with paddle, pretty cool.
>
> I really enjoy the boxes the at4 comes with. An option, of transparent
> colors? Applied by owner, not you.
> I'm thinkin of washing one in Simple Green... anodizing...??
>
> An add on BLT type tuner... plug in..attach to.. stack on... or cable
> to... with the Tayloe bridge.
> But getting that to play on 160 almost dictates a single band effort.
> Or Plug and play coils/caps.
>
> ok.. I'll stop, for now.
>
> Isn't this fun?
>
>
> --... ...-- Dale - WC7S in Wy
>
>

7998. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 05:54:14 UTC
From: ae5xae5x
Topic: 7962 Message: 7998

--- In AT_Sprint@yahoogroups.com, Steven Carr <steve@...> wrote:
>
>
> I thought cw wasn't legal on 60...

Not yet, but soon will be.

John AE5X
http://www.ae5x.com/blog

7999. Re: ATS-3B overcurrent condition

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 06:17:08 UTC
From: tlcfarmer
Topic: 7953 Message: 7999

Same problem exists after building and testing the 80m band module board. The rx is mostly deaf, and the tx goes 'E' immediately upon closing a paddle. With the 80m band module, I used a Drake R8A to find a on going QSO which I then tried to tune to with the 3B. The 3B could not hear it. I accidentally bumped a paddle, and there was a continuous tone on the R8A that drown out the QSO completely. The LED digit on the 3B was 'E' again, and the menu key reset the 'E', at which time the tone went away. I went to a vacant frequency and repeated this with both paddles. I also found out there was no output registered on my well working WM-2 wattmeter. The power supply was set at 10v.

All this leads me to believe that the problem is in the common rx and tx components near the power amp and band module. The problem exists with either the 80m or 40m band module installed.

Any help anyone can provide would be very welcome and appreciated.

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com, tlcfarmer@... wrote:
>
> RX current is 38.5 mA
>
> Lincoln
> N9IN
>
> --- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@> wrote:
> >
> > It also means that it could be the 2n7000 finals or the filter board.
> >
> > Still wonder what the idle current consumption is? If it's near 35ma then that's good. If it's more then you got a short somewhere that may not involve the rf amp.
> >
> > Last ATS build I did I had lots of issues. All went away when I clean the flux off the boards (filter boards too). Might be worth a shot.
> >
> > -mike
> >
> >
> >
> >
> > ----- Original Message -----
> >
> > >
> > > I only built the 40m band module, so I have not tested the others.
> > >
> > > I lifted one side of L3 and now the 'E' does not show up and the

> > > sidetone is in the headphones. So that meant L3 had the proper connection.
> > >
> >
>

8000. Re: [AT_Sprint] Re: ATS-3B overcurrent condition

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 06:49:33 UTC
From: Stephen Wandling
Topic: 7953 Message: 8000

One common area is in the antenna connection. I would take a look at L4, C59 and D3 to see if there are any possible bridges. I would check the polarity of D3 and I would put a hot iron to both sides of C59 and L4. Those three components are common to receive and transmit. If C59 or L4 is not properly soldered, or D3 is reversed, then it seems you might get the results you mentioned.

Anyway it's a place to start.

72
Stephen
VE7NSD
On 13/01/2012 10:17 PM, tlcfarmer wrote:
> Same problem exists after building and testing the 80m band module board. The rx is mostly deaf, and the tx goes 'E' immediately upon closing a paddle. With the 80m band module, I used a Drake R8A to find a on going QSO which I then tried to tune to with the 3B. The 3B could not hear it. I accidentally bumped a paddle, and there was a continuous tone on the R8A that drown out the QSO completely. The LED digit on the 3B was 'E' again, and the menu key reset the 'E', at which time the tone went away. I went to a vacant frequency and repeated this with both paddles. I also found out there was no output registered on my well working WM-2 wattmeter. The power supply was set at 10v.
>
> All this leads me to believe that the problem is in the common rx and tx components near the power amp and band module. The problem exists with either the 80m or 40m band module installed.
>
> Any help anyone can provide would be very welcome and appreciated.
>
> Lincoln
> N9IN
>
>
> --- In AT_Sprint@yahoogroups.com, tlcfarmer@... wrote:
>
>> RX current is 38.5 mA
>>
>> Lincoln
>> N9IN
>>
>> --- In AT_Sprint@yahoogroups.com, Michael Harnage<w1mt@> wrote:
>>
>>> It also means that it could be the 2n7000 finals or the filter board.
>>>
>>> Still wonder what the idle current consumption is? If it's near 35ma then that's good. If it's more then you got a short somewhere that may not involve the rf amp.

>>>
>>> Last ATS build I did I had lots of issues. All went away when I clean the flux off the boards (filter boards too). Might be worth a shot.
>>>
>>> -mike
>>>
>>>
>>>
>>>
>>> ----- Original Message -----
>>>
>>>
>>>> I only built the 40m band module, so I have not tested the others.
>>>>
>>>> I lifted one side of L3 and now the 'E' does not show up and the
>>>> sidetone is in the headphones. So that meant L3 had the proper connection.
>>>>
>>>>
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>>
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> ----------
>
> Yahoo! Groups Links
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8001. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 09:40:05 UTC
From: Vojtech
Topic: 7962 Message: 8001

Hi Steve.

I am sure there is a demand for the Altoids size transceiver, I know one HAM, who prefers the smaller factor over the ATS-4. I have to admit I got rid of most of my HAM equipment, but I keep the ATS-3b.

In regard to the band modules, I would be happy with 4 band modules as a standard and couple of more as a separate option. To be able to buy just the printed board for an additional band module would be a big help. Having a chance to buy a band module board will be helpful for those who lost some.

> Consider a SWR bridge and a feedback circuit which would reduce the drive and/or power output so the finals wouldn't be damaged. This has been the "standard" for many (most?) commercial rigs since the 1980's.

> For my 2 cents worth... how about including a "tune-up" ciruit... like a 5 ohm resistor, with a shorting switch... for lower power and for tuneups.
Or.. a current limit for the finals... settable, in software... or with a button for "tuneup" and lower power/longer battery life.

I think those are good ideas. Something like an overcurrent detector like in the original ATS-3 connected with a circuit adjusting the bias of the CW keying FET could do the job. Maybe the bias could be driven by PWM from the software to control the output power by software?

Regarding the SSB reception, my experience with my modded ATS-3b is, the receiver IF and audio chain is quite noisy. When open up for SSB, it is noticable. I don't think quality of the SSB reception it is worth the complexity. Likely the most noise is produced by the 2nd NE62 mixer and Elecraft KX1 (and the Chinese copy of it) add a current follower after the IF filter and before the 2nd mixer likely to lower the noise and for impedance matching of the filter.

Audio volume could be nicely controlled by digital pot, like in my modded ATS-3b. Microchip has some for reasonable price. Just put them into the feedback of an op amp.

I always was for an encoder for tuning. The encoder could be used for digital volume control. A cheap encoder with removed spring has a pretty fine tuning step and is small.

I would recommend to go with the modern MSP430 with fine pitched leads and to provide MSP430 lauchpad kit with it. For $4.30 it is dirt cheap and allows everyone to program his radio without having to dig for an old PC with parallel port. This would allow to go with a modern MSP430 chip with more memory to implement more SW features or with more input / output pins. I think the programmer part of the kit has even an USB to serial converter, which could be used for communication with the radio, like programming of the CW memories and frequency memories. The bigger chip could do logging, audio recording, you name it.
http://www.ti.com/tool/msp-exp430g2#buy

73, Vojtech OK1IAK, AB2ZA

8002. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 10:56:22 UTC
From: g8tmv
Topic: 7962 Message: 8002

--- In AT_Sprint@yahoogroups.com, Steven Carr <steve@...> wrote:
>
> I thought cw wasn't legal on 60...

<sigh> There are more places in the world than the USA.

Steve's rigs are used all over the world and there are plenty of places
where cw (and other modes) are legal on 60m.

Colin - G8TMV (a CW user on 60m)

8003. Re: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 12:27:19 UTC
From: Håkan Olsson
Topic: 7962 Message: 8003

I might be wrong, but as I have understood it, the ATS-3 relied on the AN6123MS to take care of both the manual volume control and the AGC. This chip is no longer available. This meant that a new construction was needed which had to include a manual volume control. The ATS-4 was a direct result of the feedback Steve got from this list during the construction process.

I think that the ATS-4 was a vast improvement over the ATS-3. Extensive use in the field during a lot of SOTA and SMFF activity have confirmed this impression.

We should not forget that the ATS series spring from Steve?s own needs during his tours along the Appalachian trail. Thus it is constructed as a trail friendly radio for portable operations when you have to carry all your equipment on your back during extended trips away from civilization. It is not supposed to be a toy to play around with in your home shack or to take to some park bench not far away from your car.

Out in the bush you are not very interested in working DX. More important is contacts up to a distance of 1500 km. The radio might also be needed in case of emergency. Primarily you need 80, 40 and 30 meters. 20 meters is not needed for us in Europe, but perhaps it is for you over on the other side of the Big Pond. 17 and 15 meters are not needed at all!

I belong to the fraction that are against including a antenna tuner in the same box as the tranceiver. Working with an EFHW antenna I have found that it is better to have one or two meters of RG-174 between the tranceiver and the tuner. It gives you more options both where to sit down and how/where to put up your antenna.

When you look around, there are actually not that many rigs that fit the same bill as the ATS-4. The only other I can think of is the Youkits HB-1B. However, it is a bit bigger than the ATS-4. It is also more expensive and it does not have a message memory for the CW keyer, something I have found to be almost a must when working SOTA or SMFF.

As for me, I wish Steve would continue to develop the ATS series along the ATS-4 concept. Thus I hope that the ATS-4, or something similar, will be available to us in the future at regular intervals. If Steve gets tired of doing so he perhaps could hand it over to Hendricks QRP Kits to produce them...

H?kan/SM6EQO
http://hem.bredband.net/b101180/

8004. Re: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 03:09:49 UTC
From: Bart Lawson
Topic: 7962 Message: 8004

Terry,

I immediately thought of your ATS-3 when reading these post.

Terry is a walking bill board for the durability of the AT-Sprint rigs built in the Altoids tin!

They take a lickin and keep on tickin!!!!

cu es 72, Bart W0IIT
Pittsburg, KS

8005. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 11:53:32 UTC
From: Yannick
Topic: 7962 Message: 8005

Hi Steve, fellow hams,

Thanks for the great job you do around the ATS serie, Steve.
ATS-3, ATS-4 and even KX-3 or FT-817 alike others different services for different prices.

I was thinking about buying an ATS-4 for last christmas but the economic slowdown here forced me to cut in my budget.
I still expect to buy me a portable rig for my birthday in April.

About the form factor, this my own thoughts.
For me, going portable must be with a really portable rig.
ATS-3 is perhaps a little bit "too small", I mean the package not as sturdy as you can expect for something to go in the wild.
ATS-4 is at the upper range but ok since it offers a lot more convenient features.
KX-3 and FT-817 are ok since they can be "self contained" with batteries and ATU... but perhaps a little bit too big for being really convenient.

About the features :
- performance like ATS-4 are great, no need for better,
- CW only is ok for me,
- 5-10W power out is ok. More will draw batteries too much for portable.
- 1 band is ok but not enough. 4 band is ok but perhaps too much...
in fact I'd like 2 bands (plugable filters are ok), one for night (40m or 30m) and one for day (20, 17 or 15m). 160m or 80m are out of consideration for me in portable conditions. 17 and 15m are good compromises band for daytime and aerial size.

About the cost... Well 240 USD is in the top of the range I can afford for a rig I will use 3 or 4 times a year. The ATS-4 was a great deal without doubt, but if a monoband rig without display and casing allow to significantly cut prices, for me it will be the best choice.

I vote for a revised ATS-3.

73,
Yan - XV4Y.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Okay the last of the ATS-4B's shipped today. That will be it for a while. So, what to do next?
>
> I'm thinking of revisiting the 3B. The new AGC circuit used on the 4B can be used to

replace the AGC chip used in the 3B which became unobtanium, even though the new circuit takes up a lot more space.
>
> The other problem was the bottom adjust trimmers used on the filter boards also became obsolete. Those can be replaced by SMT trimmers, though they are three times more expensive.
>
> What I can't decide is how many bands to make it cover. I'm tempted to go single band to simplify things and keep the cost minimual. Or going back to 4 bands, with a 20M upper limit. Limiting to 20M reduces the Rx current by a significant amount. Or did I really spoil you guys by making 5 and 6 band rigs?
>
> Suggestions and comments welcome, but keep them reasonable!! I'd like to go back to fitting this in an Altoids tin again :)
>
> 72, Steve KD1JV
>

8006. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 15:46:32 UTC
From: Fred Maas
Topic: 7962 Message: 8006
Attachments: 1 described; binary payloads are missing from this source WARC

There is a LOT of additional user functionality in the ATS4B that isn't there in the ATS3B at the cost of only three ounces.

My #1 wish in the ATS4B, at least, so far, is Anderson Powerpole DC jack. Such could slide into a slot and slide out again, not need to be unwired to service the radio.

I tend to stay on one FQ and call CQ on SOTA's, and I tend to do the same with the ATS3B. If I am out for longer, trying to tune about, operate in a QRP to the Field sort of activity, the ATS4B wins hands down.

Probably many folks use a tree to support an antenna. I don't because so many of my peaks are either desret peaks, no tres, or so high, over 12,000 ft, as to be above treeline. That caused me to design a system using a 20 ft crappie pole indepedent of andy site support.

I have designed an approach to this where the radio doesn't lay on the ground, at all, ever. My desk is the pole. I connect the radio to the pole and sit next to the pole. to do this simply, I have replaced the screws for the top with 1/4 inch stand-offs, see photo. I offer this as I think sharing ideas has a way of leading to even better modifications!

73, Fred - kt5x
aka WS0TA

P.S. I use 3S LiPO batteries. The majority of the cahrge is between 11.1 and 11.6 volts. I am getting over five watts out at that voltage at modest current drain (efficiency in the range of 75 to 80%).

I might be wrong, but as I have understood it, the ATS-3 relied on the AN6123MS to take care of both the manual volume control and the AGC. This chip is no longer available. This meant that a new construction was needed which had to include a manual volume control. The ATS-4 was a direct result of the feedback Steve got from this list during the construction process.
I think that the ATS-4 was a vast improvement over the ATS-3. Extensive use in the field during a lot of SOTA and SMFF activity have confirmed this impression.

We should not forget that the ATS series spring from Steve´s own needs during his tours along the Appalachian trail. Thus it is constructed as a trail friendly radio for portable operations when you have to carry all your equipment on your back during extended trips away from civilization. It is not supposed to be a toy to play around with in your home shack or to take to some park bench not far away from your car.

Out in the bush you are not very interested in working DX. More important is contacts up to a distance of 1500 km. The radio might also be needed in case of emergency. Primarily you need 80, 40 and 30 meters. 20 meters is not needed for us in Europe, but perhaps it is for you over on the other side of the Big Pond. 17 and 15 meters are not needed at all!

I belong to the fraction that are against including a antenna tuner in the same box as the tranceiver. Working with an EFHW antenna I have found that it is better to have one or two meters of RG-174 between the tranceiver and the tuner. It gives you more options both where to sit down and how/where to put up your antenna.

When you look around, there are actually not that many rigs that fit the same bill as the ATS-4. The only other I can think of is the Youkits HB-1B. However, it is a bit bigger than the ATS-4. It is also more expensive and it does not have a message memory for the CW keyer, something I have found to be almost a must when working SOTA or SMFF.

As for me, I wish Steve would continue to develop the ATS series along the ATS-4 concept. Thus I hope that the ATS-4, or something similar, will be available to us in the future at regular intervals. If Steve gets tired of doing so he perhaps could hand it over to Hendricks QRP Kits to produce them...

Håkan/SM6EQO
http://hem.bredband.net/b101180/

8007. RE: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 15:56:11 UTC
From: Dale Putnam
Topic: 7962 Message: 8007
Attachments: 1 described; binary payloads are missing from this source WARC

I'm going to have to stop thinking about this.... or Steve will go over the edge trying to keep up with all of it.

Thinking about inside the radio, the rit or xit, if they could be tuned, then returned to easily... Set the tx over there... listen here... check the tx freq, return to the rx freq...

do it again.. move the tx, without affecting the rx.. check either one for signals... that flexibility is very nice.

The narrow filtering is wonderful, but at times it would be good to widen out the rx... then narrow it back....

The adjustable speed keyer is wonderful.

ok.. now I'll stop. ... no promises for how long tho...

Steve, you do wonderful design work, it is amazing, and great to work on your stuff.

Have a great day,

--... ...-- Dale - WC7S in Wy

8008. RE: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 16:04:41 UTC
From: Dale Putnam
Topic: 7962 Message: 8008

It isn't.... in the US... yet.

The access for cw will occur 30 days after the publishing of the new band plan for 60.

It has already been reviewed, just needs to be published.

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: colintu@...
Date: Sat, 14 Jan 2012 10:56:22 +0000
Subject: [AT_Sprint] Re: What to do next?

--- In AT_Sprint@yahoogroups.com, Steven Carr <steve@...> wrote:
>
> I thought cw wasn't legal on 60...

<sigh> There are more places in the world than the USA.

Steve's rigs are used all over the world and there are plenty of places
where cw (and other modes) are legal on 60m.

Colin - G8TMV (a CW user on 60m)

8009. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 16:09:17 UTC
From: Michael Harnage
Topic: 7962 Message: 8009

Hmmm, dual VFO A/B, split mode. That's a great idea, if only someone would write that. :)

Seriously, if you haven't checked out my firmware it might be worth it.

I really like Vojtech's idea of using one of the newer TI MSP430 so that the $4.30 board could be used. Only need 2 lines to program then.

mike/w1mt

>_____
>
>Thinking about inside the radio, the rit or xit, if they could be tuned, then returned to easily... Set the tx over there... listen here... check the tx freq, return to the rx freq...
>do it again.. move the tx, without affecting the rx.. check either one for signals... that flexibility is very nice.
> The narrow filtering is wonderful, but at times it would be good to widen out the rx... then narrow it back....
> The adjustable speed keyer is wonderful.

>
>
>
>

8010. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 16:50:02 UTC
From: russellhulett
Topic: 7962 Message: 8010

Well, the ATS-3B has been perfect for me, especially for taking on trips. I like the Altoids size, and yes you spoiled me with a multi-band rig. Using a 9V battery for power is a real plus.

Too bad the higher frequencies cause such design problems, a two or three-band radio with 20M as the lowest frequency would attract me. Like 20, and 17, 15 or 10.

73, Curt KB5JO

8011. Re: [AT_Sprint] Re: ATS-3B overcurrent condition

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 17:39:21 UTC
From: Steven Weber
Topic: 7953 Message: 8011

>Same problem exists after building and testing the 80m band module board.
>The rx is mostly deaf, and the tx goes 'E' immediately upon closing a
>paddle.

It sounds like on or more of the 2N7000's are shorted out. Put an ohm meter across them (drain -source) and the meter reads anything but on an open, remove them. Contact me direct for replacements.

Steve KD1JV

8012. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 18:19:15 UTC
From: Steven Weber
Topic: 7962 Message: 8012

Thanks for all the ideas and comments. These discussions are always interesting. Some of the items on the "wish list" are practical, some are not. In any event, gives me a lot to think about...

72, Steve KD1JV

8013. Re: Jennifer Pharr Davis

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 18:47:28 UTC
From: Dennis
Topic: 7976 Message: 8013

I recall on my first 600 miles (1000 km) I lost something like 25 lbs (and I didn't need to lose any!) After my 6-artery bypass at that point, and three hundred days to recover, I went back and finished the other 1600 miles (2500 km). I had regained the 25 pounds in the interim lost 35 lbs on the second leg of the hike. Even though it is just walking, it burns huge amounts of calories. I just couldn't replace what I was burning and I speculated in my book that if I had two more weeks to go, I probably wouldn't have finished because I would have had to take some time off, just to sit and eat for a week or two.
I was traveling way slower than Jennifer, it took me a total of 180 days. I even had the pleasure of hiking with Steve for a few days in Maine.
Of course going slowly meant time to use the ATS3a often. The ATS is perfect for that application (long distance hikes) but not really a home station rig, at least in my opinion. Home stations should be convenient and comfortable to use. I've never understood why people want to build QRP equipment so small? Yes, in a backpack that makes sense, but in a home station, I like having easy to see knobs, readouts and connectors. I like frequency readout displays and volume controls. Form should fit function and tiny in the home station just doesn't work for me. I love my HW-9 because it suits a home station environment. I love the ATS-3A because it is perfect for that environment (The AT!)
I just returned from carrying the ATS on my hike across Spain on the Camino de Santiago, 500 miles (800 km). (Another book? Yep, title: A FEW MORE ZEROES, available this spring) Because of the six-hour time differential I didn't work too many US stations, I think it was four, but worked a bunch of Europeans and Asians. The ATS is a real work horse. I used a set of six Energizer disposable lithiums and they're still running, months later. Nice job Steve.
Dennis, K1YPPAuthor of Three Hundred Zeroes.
--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
> Today my wife and I were privileged to attend a lecture by Jennifer Hg
>

8014. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 19:05:21 UTC
From: Colin Tuckley
Topic: 7962 Message: 8014

On 14/01/12 18:19, Steven Weber wrote:
>
>
> Thanks for all the ideas and comments. These discussions are always
> interesting. Some of the items on the "wish list" are practical, some
> are not. In any event, gives me a lot to think about...

Just one more thing to think about...

When you (Steve) designed the first ATS rigs we didn't have the same battery technology as we have today. So current consumption was a bigger factor.

Today with Lithium battery technology it isn't such a big factor in my opinion. The best PP3 size batteries are at least twice the capacity of their equivalents from 5 years ago. On the SOTA reflector we have two people having a competition to see how many QSOs they can manage from a single 9v PP3. The record so far is over 500! Admittedly it's a rock bound single band rig with less that 0.5W output, but it just goes to show what is possible.

What I'm saying is that you shouldn't worry too much about a few extra milliamps if it gives you another band/feature/bell/whistle.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

Afraid of heights? Not me, I'm afraid of widths!

8015. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-14 20:05:09 UTC
From: jgaffke
Topic: 7962 Message: 8015

Consider going to something like the MSP430F5172 in the TSSOP38. Gives 32K of flash, 2k or SRAM, a 10 bit A2D and a 32x32 multiplier. Add a 4 pin connector for a UART at CMOS signal levels (with power). I'm thinking a better psk31 demodulator than http://groups.yahoo.com/group/AT_Sprint/files/KE7ER/pskuc.c in MSP430 firmware, options for an lcd display, chording keyboard, and/or rotary encoder on the UART, enough flash for recording the last qso, ... A larger MSP430 would make all kinds of experimentation much easier without hardware mods to the rig.
Jerry, KE7ER

8016. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-15 01:00:01 UTC
From: Yannick
Topic: 7962 Message: 8016

Hi,

I agree with the Si570. It's an interesting chip (that can often go below 5MHz) and not so expensive if you compare all the parts to build a DDS having similar performances and frequency range.
However, it is a pain to program and it is really different from the way you choose. For the ATS purpose, sticking with a DDS is the best choice. No gain to expect from the Si570.

If it is a great power consumption difference between 20m and 15m, then, my personal choice would be a twin bander 30m/20m. This could also allow some LPF parts sharing perhaps.

Altoids box is a great choice for you in North America. However, in many parts of the World I know (France, Spain, Viet-Nam...) they are not so common. Ok I can wait for some guests or relatives to come and bring me one...
That said, the form factor by itself is ok and open the way to many other solutions. This size of box is easier to find than other sizes...

For connectors and controls, keep it simple. Working portable QRP you don't need the same ergonomic as contesting. The gain for "handling and installation" is more important than for operating.

73,
Yan - XV4Y.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Thanks for the ideas.
>
> First, the Si570 suggestion. Couple of problems with that. 1, it only goes down to 10 MHz and 2, it draws over 100 ma. That's twice the total receiver current of the -4's. Plus it's pretty expensive, hard to get and a pain to program.
>
> 20W class E amp - no. Too touchy and I don't want that responsability.
>
> Single/multi ? I guess it only makes sense to stick with multi.
>
> I've already removed the phone and power jack from the board to make room. I can use the larger power plug now used with the 4's. This unfortunately requires notching the edge of the lid a little to clear the mounting nut.
>
> I'm guessing that 15M was the current hog, how about 17M as the highest band?
>
> I can use a 50 MHz clock for up to 20, any higher and it needs to be 60 MHz. That extra 10 MHz of clock speed causes the big increase in current.
>
> Altoids vs Custom case

>
> The Altoids tin has proven it's self as a rugged enough case. At least one 3B I know of was carried in a backpack for most, if not all, the Appalachian Trail and a number of them have been carried for lesser, but still very impressive distances.
>
> Another advatage of the Altoids tin is the great job many have done to customize thier case.
>
> I can't add a volume control to an Altoids sized rig, there just isn't enough room. I can however, make the minimum level at which the AGC kicks in adjustable, so one can set the max volume to thier perticular thrushold of pain. And of course, there are volume controls which can be added in line with headphones available.
>
> Steve
>

8017. Re: [AT_Sprint] Re: Jennifer Pharr Davis

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-15 11:06:14 UTC
From: David Wilcox
Topic: 7976 Message: 8017

Dennis,

Put me down for a copy of your book. Will pick it up at FDIM.

Dave K8WPE

From: Dennis <k1ypp@...>
To: AT_Sprint@yahoogroups.com
Sent: Saturday, January 14, 2012 1:47 PM
Subject: [AT_Sprint] Re: Jennifer Pharr Davis

I recall on my first 600 miles (1000 km) I lost something like 25 lbs (and I didn't need to lose any!) After my 6-artery bypass at that point, and three hundred days to recover, I went back and finished the other 1600 miles (2500 km). I had regained the 25 pounds in the interim lost 35 lbs on the second leg of the hike. Even though it is just walking, it burns huge amounts of calories. I just couldn't replace what I was burning and I speculated in my book that if I had two more weeks to go, I probably wouldn't have finished because I would have had to take some time off, just to sit and eat for a week or two.

I was traveling way slower than Jennifer, it took me a total of 180 days. I even had the pleasure of hiking with Steve for a few days in Maine.

Of course going slowly meant time to use the ATS3a often. The ATS is perfect for that application (long distance hikes) but not really a home station rig, at least in my opinion. Home stations should be convenient and comfortable to use. I've never understood why people want to build QRP equipment so small? Yes, in a backpack that makes sense, but in a home station, I like having easy to see knobs, readouts and connectors. I like frequency readout displays and volume controls. Form should fit function and tiny in the home station just doesn't work for me. I love my HW-9 because it suits a home station environment. I love the ATS-3A because it is perfect for that environment (The AT!)

I just returned from carrying the ATS on my hike across Spain on the Camino de Santiago, 500 miles (800 km). (Another book? Yep, title: A FEW MORE ZEROES, available this spring) Because of the six-hour time differential I didn't work too many US stations, I think it was four, but worked a bunch of Europeans and Asians. The ATS is a real work horse. I used a set of six Energizer disposable lithiums and they're still running, months later. Nice job Steve.

Dennis, K1YPP
Author of Three Hundred Zeroes.
--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
> Today my wife and I were privileged to attend a lecture by Jennifer
 Hg
>

8018. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-15 18:24:33 UTC
From: Bill Noyce
Topic: 7962 Message: 8018

In my ATS3, I can store all 4 band modules -- 3 in the lid and 1 plugged in. I like having more bands, but is there a way to have two or more bands on a single module? For example, share one LPF for 40 & 30m, and adjust the receive BPF with a switch or shorting plug. Ditto for 20/17/15.
-- Bill, AB1AV

8019. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-15 18:54:15 UTC
From: Fred Maas
Topic: 7962 Message: 8019

Just thinking, wondering ...maybe if the two modules were back to back but reversed, could unplug, rotate 180 degrees, and plug in the other band?

72, fd - kt5x

In my ATS3, I can store all 4 band modules -- 3 in the lid and 1 plugged in. I like having more bands, but is there a way to have two or more bands on a single module? For example, share one LPF for 40 & 30m, and adjust the receive BPF with a switch or shorting plug. Ditto for 20/17/15.
-- Bill, AB1AV

8020. Re: [AT_Sprint] What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-15 19:15:31 UTC
From: Stephen Wandling
Topic: 7962 Message: 8020

I've been following this thread and even contributing to it, but today I had this thought.

How many of us, back before the first ATS, would have been able to come up with even a FEW of the features that Steve put into this rig? For sure, not me.

So, I for one am going to vote that we give Steve some space/time to amaze us again. I'm sure he values the inputs he has received, but I also suspect that, given the space/time, he can produce something that blow our minds. Again.

72

On 13/01/2012 1:55 PM, Steven wrote:
> Okay the last of the ATS-4B's shipped today. That will be it for a while. So, what to do next?
>

8021. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-15 20:25:20 UTC
From: Mike
Topic: 7962 Message: 8021

I'd like to see a "SOTA special" version of the ATS3.

The thing that's always impressed me about the ATS3 is how sturdy it is. On SOTA outings I can just toss it in a bag with the rest of my portable stuff, throw the bag in my pack, and not worry about it being damaged if I bang the pack into trees or rocks along the trail, rummage through the pack looking for things, sling the pack to the ground at rest stops, drop the ATS3 off a rock ledge when setting up, sit on it a bit when squirming around in a tight operating position, and so forth.

I also have a KX1 and, if I take it, I always feel like I have to baby it along compared to the ATS3 so the ATS3 goes on all but the easiest SOTA trips.

Part of that sturdiness comes from its super light weight, but mostly it comes from the total lack of delicate, protruding controls and the simple, rugged and cheap Altoids tin enclosure ☐ who cares if the tin gets banged/scratched up, as long as it protects the ATS3 board. If/when it gets too ratty looking just buy another one, drill a few holes and you're back in business.

The only problems I've ever had with my ATS3 have centered on the band module connector. Not a lot of problems over the years but all caused by that interface. In my experience, for SOTA outings of any difficulty, multi-band capability is really not much use so a single band unit that eliminates the band module connector would be fine with me. Also, fancy tuning capabilities aren't needed since you spend most of the time calling CQ on a single frequency.

So, what I'd like to see is a simple, rugged, single band unit that fits in an Altoid tin, with the same great receiver, and rugged finals that put out as much power as practical.

73,

Mike - ke5akl

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Okay the last of the ATS-4B's shipped today. That will be it for a while. So, what to do next?
>
>
> Suggestions and comments welcome, but keep them reasonable!! I'd like to go back to fitting this in an Altoids tin again :)
>
> 72, Steve KD1JV
>

8022. NAQCC Sprint Wednesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-16 02:31:54 UTC
From: NAQCC
Topic: 2848 Message: 8022

NAQCC Sprint Wednesday night!

Our January sprint is this coming Wednesday evening local time (Jan 18, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Thursday Jan 19, 0130-0330Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201201.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX. A Certificate for top score in the GAIN antenna category. Finally there is one more award - a certificate to the highest score from a first-time participant.

Prizes: A prize of a set of bug/paddle handles or a K1/K2 knob insert donated by master woodworker Gregg WB8LZG is awarded for each sprint to the winner of a random drawing among all participants. Previous winners are not eligible.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 5,840+ members in: All 50 States - 9 VE Provinces - 90 Countries. Just sign up on the NAQCC website (http://naqcc.info/) and you will receive a handsome certificate, with your membership number which is good for life. A great way to start the New Year!!

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

8023. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-16 17:58:46 UTC
From: Vojtech
Topic: 7962 Message: 8023

Hi Steve.

I got a crazy idea. Let's get away from the Superhetodnyne and build a phasing receiver using two NE612s. I built something similar for 80m and the receiver performs favorably on low bands compared to the NE612 based superhet like ATS or KX1, because there is no ladder filter to ring. The receiver sounds much comforting on 80m and 40m than the ATS you would not believe it. All filtering is performed in audio chain.

http://kufr.cz/~ok1iak/HAM/DOB80/index.php3

The problem is, the approach needs quadrature VFO. But when going with pluggable boards, the phasing can be done at the band module with a simple RC circuit! Now you have a challenge to build something nobody done yet, a multiband phasing TRX with cheap DDS running not at 4x the mixing frequency.

The phasing receiver usually has relatively poor opposite side band suppression, likely around 40dB. All filtering is done in baseband. Dan Tayloe issued great presentations on audio filtering for the DC receivers:

http://www.norcalqrp.org/files/PacificonNC2030Presentation.pdf
http://www.norcalqrp.org/files%5CReceiver_Audio_Filtering.pdf

73, Vojtech OK1IAK

8024. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-16 19:36:20 UTC
From: jgaffke
Topic: 7962 Message: 8024

Crazier still: An SDR for 40 and 80 sampling at a few KHz with a couple ADS1251's, recovering a single channel of CW or PSK31 using the MSP430's 32 bit multiply. Might still fit the Altoids tin. KE7ER

--- In AT_Sprint@yahoogroups.com, "Vojtech" <bubnikv@...> wrote:
> I got a crazy idea. Let's get away from the Superhetodnyne and build a phasing receiver using two NE612s.

8025. 2nd Half - Fresh Start!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-16 21:41:44 UTC
From: Dale Putnam
Topic: 8025 Message: 8025

N0UR and I will be your FOXii Tuesday evening, The 80M Foxes will operate within +/- 10Khz of 3.560 MHz." I will be using a K2, and one of three or four antennas, with the K2 at 5 watts. Jim will be 5 watts also.. but you can test our ears, with any power you want....as long as it isn't over 5 watts. (We have to drop Qs made with stations over 5 watts.... this is a qrp event).Now, the fun of all this comes in getting as many pelts (Qs) handed out as we can. And it also comes as a lot of fun in finding us... we will be hiding.. in the 80 acre woods...among the sage and brush.... and since it is a Winter hunt... with our white coats on... it will be hard to find us in the snow. But keep looking.. the Phat lady isn't paid to sing long.. just off key and the only thing she is really known for is not being early... or late, so stay with it, one never knows with these prop goddessess... just what will fancy their tickle. As they say.. and it has been said before.. and will again, ...
Y'ALL COME.... 0100z, Wednesday Morning... there.... and 7pm MT Tuesday evening here.
Y'hear? --... ...--
Dale - WC7S in Wy

8026. Re: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-16 22:24:43 UTC
From: Steven Weber
Topic: 7962 Message: 8026

> The phasing receiver usually has relatively poor opposite side band
> suppression, likely around 40dB. All filtering is done in baseband. Dan
> Tayloe issued great presentations on audio filtering for the DC receivers:
>

I have one of the NC2030's and I was never able to get it to work very well. Mine has nearly no sideband rejection, no matter how hard I tried. Getting the phase shift just right is easier said then done.

To do it right you really need a X4 VFO and DSP filtering and signal processing. I'm reasonably good at flipping ports on and off and doing simple math, but when it comes to DSP programming, that's still way over my head.

Steve KD1JV

8027. RE: [AT_Sprint] 2nd Half - Fresh Start!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-16 23:21:39 UTC
From: Dale Putnam
Topic: 8025 Message: 8027

A couple of very sharp hounds... remind me that this is not daylight savings time... so be sure to find the foxii... at 0200z... or 7pm MT.... Tuesday PM... and if you want to check it all out.. look at http://www.qrpfoxhunt.org

--... ...--
Dale - WC7S in Wy

N0UR and I will be your FOXii Tuesday evening,
The 80M Foxes will operate within +/- 10Khz of 3.560
MHz."

I will be using a K2, and one of
three or four antennas, with the K2 at 5 watts. Jim will be 5 watts also.. but
you can test our ears, with any power you want....
as long as it isn't over
5 watts. (We have to drop Qs made with stations over 5 watts.... this is a qrp
event).
Now, the fun of all this comes in getting as many pelts (Qs) handed
out as we can. And it also comes as a lot of fun in finding us... we will be
hiding.. in the 80 acre woods...
among the sage and brush.... and since it
is a Winter hunt... with our white coats on... it will be hard to find us
in the snow.
But keep looking.. the Phat lady isn't paid to sing
long.. just off key and the only thing she is really known for is not being
early... or late, so stay with it, one never knows with these prop
goddessess... just what will fancy their tickle.
As they say.. and
it has been said before.. and will again, ... Y'ALL COME....

0100z, Wednesday Morning... there.... and 7pm MT Tuesday evening
here.

Y'hear?

--... ...-- Dale
- WC7S in Wy

8028. RE: [AT_Sprint] Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-17 01:46:18 UTC
From: Ken Lotts
Topic: 7962 Message: 8028

Dang.. That is not good news since I am still building my Norcal 2030 from a few years ago (I just recently collected all the parts). I hope mine works correctly at some point.

I have seen at least one report of a success story from Don Huff where he built a Norcal Tayloe based detector for his R2Pro and he claims getting 60db opposite sideband suppression using an AD9854 IQ vfo (with compression trimmers on the output to tweak the RF phase). (as per his pdf project summary at http://cbjohn.com/aa0zz/IQProUsers/W6JL/W6JL.pdf)

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com]On Behalf Of Steven Weber
Sent: Monday, January 16, 2012 3:25 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: What to do next?

> The phasing receiver usually has relatively poor opposite side band
> suppression, likely around 40dB. All filtering is done in baseband. Dan
> Tayloe issued great presentations on audio filtering for the DC receivers:
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Mine has nearly no sideband rejection, no matter how hard I tried. Getting the phase shift just right is easier said then done.

To do it right you really need a X4 VFO and DSP filtering and signal processing. I'm reasonably good at flipping ports on and off and doing simple math, but when it comes to DSP programming, that's still way over my
head.

Steve KD1JV

8029. ATS4A cw memory keying spacing fixed

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-17 02:24:34 UTC
From: K
Topic: 8029 Message: 8029

As I mentioned in an earlier message, I didn't like the spacing when using the keyer memories of my ATS4A. I modified the firmware slightly to make standard spacing. While I was at it, I changed the upper transmit limit on 15m to 21450 KHz -- not that I expect to operate up there. I then followed Steve's directions and flashed the firmware with no trouble. I am happy with the way the keyer messages sound now.

In case anyone else wants to do this, my 3 tiny changes are shown below (the < lines are the originals, and the > lines are their replacements)

Thanks again to Steve for providing the firmware source and the directions to modify it.

73 Kevin w9cf

```
bethe$diff ATS4A.s43 ks.s43
514c514
< mov #02135h,&hlimit ;high band limit
---
> mov #02145h,&hlimit ;changed 15m high band limit KS
1722c1722
< kwdslp: cmp #0015h,r5
---
> kwdslp: cmp #000ch,r5 ; KS changed from adding 7 to 4 dit lengths
1824c1824
< m_exls: cmp.b #9,r5
---
> m_exls: cmp.b #6,r5 ;KS changed from 3 to 2 extra dit lengths
```

8030. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-17 13:58:14 UTC
From: Vojtech
Topic: 7962 Message: 8030

> I have one of the NC2030's and I was never able to get it to work very well.
> Mine has nearly no sideband rejection, no matter how hard I tried.

I had the same issue with the DOB80 transceiver, which is a much simpler design, but works on the same principles as the NorCal 2030. There was a typo in the schematic, which made one of the two IQ audio signals before summation much louder. After I fixed the issue, the opposite sideband suppression measured rigorously by my ears came from "no difference" to "barely audible at the other sideband when extremely loud on the correct sideband".

I believe it is reasonably simple to trace the NorCal2030 receiver with a RF signal generator and two channel 50MHz scope.

1) Verify that the CLK A and CLK B VFO signals are 90 degrees shifted.
2) Feed the radio with a radio signal at VFO + 600Hz.
3) You shall see 600Hz sines at the outputs of the U2a and U2b (detector preamps). They shall be of the same amplitude and 90 degrees shifted. When you change the RF generator frequency to VFO - 600Hz, you shall get the same picture on the scope, only the phase shift will be inverse.
4) Measure phase difference between input and output of the audio phasing chains, see figure 131. One leg will shift its signal by 45 degrees, the other leg by minus 45 degrees. Together they shift the phase between I and Q components by 90 degrees.
5) Measure phase difference between outputs of the audio phasing chains. The phase difference shall be 0 degrees for the correct sideband, 180 grades (opposite polarity) for the opposite sideband. Therefore the signal will sum between the outputs of UA3b and UA3d for correct sideband and diminish for the opposite sideband.

I think that's all to it.

GL, Vojtech OK1IAK

8031. Antenna and power supply

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 03:53:32 UTC
From: Bob Flye
Topic: 8031 Message: 8031

Greetings all,
I received my ATS-4b kit a week ago and nearly halfway through the build. This is my first ATS kit and first post for that matter. I have been doing a lot of thinking about antennas and power and had a couple of questions. I am pondering a battery pack and antenna tuner in one enclosure. Tuner first. My preference is the end fed half wave antennas of AA5TB, I like the great match you can get and the tiny tuner, the down side being a separate wire for each band. I do have an T1 tuner too.

Question 1: What antennas are most folks using with success that are minimal in weight and size?

Power next. I am looking at several options. First option, 9v battery. Second option, six AA cells, either Ultimate Lithium's or NiMh. Third option is 12V. Size becomes a factor with 12v as I want to put power and tuner into one enclosure, but will consider 12v if persuaded.

Question 2: What power options have most found they like?

Sorry about asking such newbie questions. I thought about reading older posts, but my antenna likes and dislikes keep evolving, and I suspect with time and experience, most others do too.
Great to join the ATS group!
72/73
Bob, AD7BP

"You are boldly going where no man knows what he is doing" -Maarten Schmidt, Palomar astronomer-

8032. RE: [AT_Sprint] Antenna and power supply

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 12:32:09 UTC
From: James Rodenkirch
Topic: 8031 Message: 8032

If you're interested in utilizing an EFHW antenna, Bob, check out the nifty little tuner that Stu, KI6J, has kitted up! Go here for pics and info: www.betterqrp.com

Stu's tuner is easy to assemble and is receiving rave reviews - believe there'll be an article on it in the February QST magazine as well.

After looking his tuner kit over and if you are interested in combining a battery pack and his tuner (you wouldn't need his enclosure then, you'd be looking at integrating battery and tuner in a new enclosure) e-mail Stu as he's been thinking about putting something like that together and may have some ideas for you - Stu and I talked about that very subject earlier this week!

Good luck with your endeavor, Bob. 72, Jim Rodenkirch, K9JWV

To: AT_Sprint@yahoogroups.com
From: swlandham@...
Date: Tue, 17 Jan 2012 19:53:32 -0800
Subject: [AT_Sprint] Antenna and power supply

Greetings all,

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Bob, AD7BP

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8033. Re: [AT_Sprint] Antenna and power supply

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 13:41:56 UTC
From: Håkan Olsson
Topic: 8031 Message: 8033

Hi Bob!

Got luck in building the ATS-4B. Be aware of the 2N7002! They are VERY sensitive to static electricity.

1. End Fed Half-Wave Antenna with a Hendricks SLT+ tuner supported by a 12.5 meter fiber glass mast from DX-Wire in Germany. Minimal in weight and size, no feeder to the antenna and works just as good as an ordinary dipole. The mast is the best compromise I have found between rigidity and portability. I work 80, 40 and 30 meters when out in the field.

2. 10 AA-size Ni-MH batteries of 2500 mAh. With the ATS-4 this give you plenty of time to work on the bands. An option I will try this upcoming season i a 6800 mAh 12 volt Li-ion battery from Hong-Kong found at ebay.co.uk.

3. Between 4 and 5 watts is enough to work all over Europe with a well placed EFHW antenna. Hight over ground and the placement of the antenna is more important then the power you are using. How and where to do it comes with experience! The only way is to get into the bush and try yourself!

H?kan / SM6EQO
http://hem.bredband.net/b101180/

On 2012-01-18 04:53, Bob Flye wrote:
> Question 1: What antennas are most folks using with success that are
> minimal in weight and size?
>
> Power next. I am looking at several options. First option, 9v battery.
> Second option, six AA cells, either Ultimate Lithium's or NiMh. Third
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> and tuner into one enclosure, but will consider 12v if persuaded.
>
> Question 2: What power options have most found they like?

8034. Re: Antenna and power supply

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 14:15:39 UTC
From: Fred Maas
Topic: 8031 Message: 8034
Attachments: 1 described; binary payloads are missing from this source WARC

These are very important questions. Can tell you, Bob, that anything you can gather to shorten your experientail curve is worth it. I have been a year making adjustments that work for me, but what works for me may not fit the appplication of everyone, or even anyone, else!

EFHW: Many of my hills and deployments are treeless, either because they are high desert, or because they are above treeline. I deploy on a 16 foot or 20 foot crappie pole. the former weighs 12 ounces, the latter 22 ounces. I use #22 insulated teflon wire, tough and light.

the height is such that on 20 mtrs the 34 foot wire is so low that radiation is NVIS ... or is it? If I deploy on a steep slope, then the slope is my reflector in the desired direction. If I deploy on the edge of a cliff, then that direction is certainly not NVIS.

I like the tuner kit offered by Stu, KI6J. It is the AA5TB tuner with a Tayloe SWR bridge for tuning, and weighs about 3 ounces. I use NO feedline at all. I mount both the tuner and the ATS3B or ATS4B ON the pole using rubber bands. I sit next to the pole. I do not guy the pole. The pole is stuck in a crevice in the rocks and pulled to one side, bracing it, by the wire.

Battery: I treid 9 volt, but it quickly loses voltage. I tried NiMH, but it, too, quickly drops voltage. I tried Lithium AA's, but it intially is too high in voltage, and has a steep voltage drop curve. Therefore I use 3S LiPO's.

The 3S LiPO's start at 12.5 volts, but quickly drop below 12 volts, and level off between 11.1 and 11.6 volts. A mere 950 mAH LiPO which costs seven dollars and recharges hundreds of times weighs about 3 ounces and powers the ATS rigs about four hours. I have made a voltage controlling switch for it, SPDT center off mini-toggle, gives me three voltage levels to choose from. Straight through, through one dropping diode when battery is fully charged, or through four dropping diodes while tuning.

entire set up weighs less than two pounds.

the following picture may be worth a thousand words.

73, Fred - kt5x

"cloud-runner"

aka WS0TA on mountain peaks

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8035. Re: [AT_Sprint] Antenna and power supply

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 17:13:31 UTC
From: Hank Greeb
Topic: 8031 Message: 8035

Bob:

End fed wire of random length with a wide range tuner is a very good, lightweight setup. KD1JV designed one such wide range tuner. I think it's being sold by Hendricks or someone else in kit form. It's very similar to the arrangement for the LDG autotuners, except it has little "Pins" (I seem to remember that somebody's version has switches) instead of relays for various inductances and capacitors. You could even use a variable capacitor like what is called a "Polyvariable capacitor" which would simplify the number of switches or pins needed.

I routinely use a 31' jackite pole and a LDG-Z-100 autotuner for "short" trail jaunts. Since my trail rig (an "original AT-Sprint - no suffix) only covers 40/30/20 meters, I can vouch for its effectiveness on these three bands. KA5S and I tuned a similar antenna to 80 meters for FYBO 2010 with a loading coil which was handy - don't recall the value of the inductance.

WB3AAL has a "Black widow vertical" which fits on a 16' jackite pole and requires no tuner. See http://www.wb3aal.com/Pages/BWV/BWV.htm for details. It covers 40/30/20 (and maybe 15 meters?) It uses a 20' jackite pole has a tapped coil at the base and several radials. WB3AAL has over a thousand contacts from the Appalachian Trail, many/most of them made with this antenna.

For Power, I use 8 NiMH cells, 2600 mAH, which gives me about 10 volts when fully charged, and 8.4 volts later. I get 3 watts @ 9 v which is sufficient for many contacts. I personally think it's better to be conservative and not push the 12 volt limit.

72/73 de n8xx Hg

On 1/17/2012 10:53 PM, Bob Flye wrote:
> Greetings all,
> I received my ATS-4b kit a week ago and nearly halfway through the build. This is my first ATS kit and first post for that matter. I have been doing a lot of thinking about antennas and power and had a couple of questions. I am pondering a battery pack and antenna tuner in one enclosure. Tuner first. My preference is the end fed half wave antennas of AA5TB, I like the great match you can get and the tiny tuner, the down side being a separate wire for each band. I do have an T1 tuner too.
>
> Question 1: What antennas are most folks using with success that are minimal in weight and size?
>
> Power next. I am looking at several options. First option, 9v battery. Second option, six AA cells, either Ultimate Lithium's or NiMh. Third option is 12V. Size becomes a factor

with 12v as I want to put power and tuner into one enclosure, but will consider 12v if persuaded.
>
> Question 2: What power options have most found they like?
>
> Sorry about asking such newbie questions. I thought about reading older posts, but my antenna likes and dislikes keep evolving, and I suspect with time and experience, most others do too.
> Great to join the ATS group!
> 72/73
> Bob, AD7BP
>
> "You are boldly going where no man knows what he is doing" -Maarten Schmidt, Palomar astronomer-
>
>
> ---
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> Yahoo! Groups Links
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8036. ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 22:40:32 UTC
From: Steven
Topic: 8036 Message: 8036

It looks like I can fit a 2 band, single board (no plug in filters) variant of the 3B into an Altoids tin. The power and phone jacks are not mounted on the board, which will make putting it into other types of boxes easier. Bands will be selected using three DPDT slide switches in a manor similer to that used in the ATS-4's.

I figure 2 bands is twice as good as 1 band, though it is only half as good as 4 bands. I also figure most SOTA operations happen on 20M (here in NA anyway) and if your out for an overnight, also having 40 is nice. Plus you can use a single EFHW wire on both 40 and 20.

Building for 80 or 30 would also be possible. The simplest thing for me to do would be to supply parts for all four band filters and let you decide which ones to use when you build it. To keep supply current absolutely minimum, the upper freq will be 20M.

Now the best part, I think I can do this for less than $100. Not much but less, but less. Since I want to spend most of my summer away hiking, I suspect I should get on this post haste, eh?

72, Steve KD1JV

8037. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 22:42:29 UTC
From: Chris Fowler
Topic: 8036 Message: 8037

On Wed, 2012-01-18 at 22:40 +0000, Steven wrote:
> Now the best part, I think I can do this for less than $100. Not much but less, but less. Since I want to spend most of my summer away hiking, I suspect I should get on this post haste, eh?

You're burning daylight. :)

Chris

8038. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 23:29:02 UTC
From: Peter W. Borders
Topic: 8036 Message: 8038

I want one, I want one, I want one!!! I keep missing out when you make these things available.

I do have a 4 that I picked up from another group member but I still want one!!!

Pete B. - WB4TKA

On Wed, Jan 18, 2012 at 5:42 PM, Chris Fowler <k4fh@...> wrote:

> On Wed, 2012-01-18 at 22:40 +0000, Steven wrote:
> > Now the best part, I think I can do this for less than $100. Not much
> but less, but less. Since I want to spend most of my summer away hiking, I
> suspect I should get on this post haste, eh?
>
>
> You're burning daylight. :)
>
> Chris
>
>
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> ------------------------------------
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> Yahoo! Groups Links
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8039. Re: ATS-3B overcurrent condition

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 23:32:53 UTC
From: tlcfarmer@yahoo.com
Topic: 7953 Message: 8039

After much time, aggravation and temper lost, I found the problem. The pcb was not completely etched and there was a bridge under the component designator mask(white paint), under the D3 zener cathode end, directly under the paint. I found it with a extremely bright Mag Light flashlight on other side of the pcb and a 25x magnifier. It was still very hard to see because there is copper on the other side, so it was in the dark shadow area. There was no way to see this without the back lighting/candling with the flashlight.

Whew, only time, temper and 3 2N7000's lost.

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
>
>
> >Same problem exists after building and testing the 80m band module board.
> >The rx is mostly deaf, and the tx goes 'E' immediately upon closing a
> >paddle.
>
> It sounds like on or more of the 2N7000's are shorted out. Put an ohm meter
> across them (drain -source) and the meter reads anything but on an open,
> remove them. Contact me direct for replacements.
>
> Steve KD1JV
>

8040. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 23:34:08 UTC
From: Richard F5VJD
Topic: 8036 Message: 8040

Hi Steve & everybody

You can definitely put me down for one of those... and that's while I am still waiting for my ATS-4B to arrive!

As I haven't heard anything to the contrary from you Steve, I'm assuming that I did make the cut for the last of the 4Bs??

7e de Richard F5VJD

On 18/01/2012 23:40, Steven wrote:
>
> It looks like I can fit a 2 band, single board (no plug in filters)
> variant of the 3B into an Altoids tin. The power and phone jacks are
> not mounted on the board, which will make putting it into other types
> of boxes easier. Bands will be selected using three DPDT slide
> switches in a manor similer to that used in the ATS-4's.
>
> I figure 2 bands is twice as good as 1 band, though it is only half as
> good as 4 bands. I also figure most SOTA operations happen on 20M
> (here in NA anyway) and if your out for an overnight, also having 40
> is nice. Plus you can use a single EFHW wire on both 40 and 20.
>
> Building for 80 or 30 would also be possible. The simplest thing for
> me to do would be to supply parts for all four band filters and let
> you decide which ones to use when you build it. To keep supply current
> absolutely minimum, the upper freq will be 20M.
>
> Now the best part, I think I can do this for less than $100. Not much
> but less, but less. Since I want to spend most of my summer away
> hiking, I suspect I should get on this post haste, eh?
>
> 72, Steve KD1JV
>
>

8041. Re: [AT_Sprint] Re: ATS-3B overcurrent condition

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 23:40:43 UTC
From: John Evans - N0HJ
Topic: 7953 Message: 8041

Bravo to you, sir,

Those are the toughest kinds to troubleshoot !!!

72 - john - n0hj

On 1/18/2012 4:32 PM, tlcfarmer@... wrote:
>
> After much time, aggravation and temper lost, I found the problem. The
> pcb was not completely etched and there was a bridge under the
> component designator mask(white paint), under the D3 zener cathode
> end, directly under the paint. I found it with a extremely bright Mag
> Light flashlight on other side of the pcb and a 25x magnifier. It was
> still very hard to see because there is copper on the other side, so
> it was in the dark shadow area. There was no way to see this without
> the back lighting/candling with the flashlight.
>
> Whew, only time, temper and 3 2N7000's lost.
>
> Lincoln
> N9IN
>

8042. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-18 23:45:49 UTC
From: tlcfarmer@yahoo.com
Topic: 8036 Message: 8042

Did the LED digit make the cut?

Is there going to be any kind of volume control, even if it is software controlled?

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> It looks like I can fit a 2 band, single board (no plug in filters) variant of the 3B into an Altoids tin. The power and phone jacks are not mounted on the board, which will make putting it into other types of boxes easier. Bands will be selected using three DPDT slide switches in a manor similer to that used in the ATS-4's.
>
> I figure 2 bands is twice as good as 1 band, though it is only half as good as 4 bands. I also figure most SOTA operations happen on 20M (here in NA anyway) and if your out for an overnight, also having 40 is nice. Plus you can use a single EFHW wire on both 40 and 20.
>
> Building for 80 or 30 would also be possible. The simplest thing for me to do would be to supply parts for all four band filters and let you decide which ones to use when you build it. To keep supply current absolutely minimum, the upper freq will be 20M.
>
> Now the best part, I think I can do this for less than $100. Not much but less, but less. Since I want to spend most of my summer away hiking, I suspect I should get on this post haste, eh?
>
> 72, Steve KD1JV
>

8043. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 00:02:50 UTC
From: Chuck Stover
Topic: 8036 Message: 8043

Steve,

20m and 40m would be the perfect combination for a mountain top rig at least in the eyes of this East Coaster. Our experience in the east with SOTA goes like this. Hike early to mid morning. Get on the air late AM or early PM. 40m first to work the east coast chasers before the band goes long, then QSY to 20m. In the early afternoon 20m is open to Europe and the West Coast. This could be a winner.

Chuck K4QS

From: Steven <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, January 18, 2012 5:40 PM
Subject: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

It looks like I can fit a 2 band, single board (no plug in filters) variant of the 3B into an Altoids tin. The power and phone jacks are not mounted on the board, which will make putting it into other types of boxes easier. Bands will be selected using three DPDT slide switches in a manor similer to that used in the ATS-4's.

I figure 2 bands is twice as good as 1 band, though it is only half as good as 4 bands. I also figure most SOTA operations happen on 20M (here in NA anyway) and if your out for an overnight, also having 40 is nice. Plus you can use a single EFHW wire on both 40 and 20.

Building for 80 or 30 would also be possible. The simplest thing for me to do would be to supply parts for all four band filters and let you decide which ones to use when you build it. To keep supply current absolutely minimum, the upper freq will be 20M.

Now the best part, I think I can do this for less than $100. Not much but less, but less. Since I want to spend most of my summer away hiking, I suspect I should get on this post haste, eh?

72, Steve KD1JV

8044. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 01:20:50 UTC
From: Steven Weber
Topic: 8036 Message: 8044

The LED digit is retained but there is no volume control as before. There simply isn't room for either a mechanical or digital one. Audio level will be limited to about 800 mV peak to peak, which is reasonably loud without being deafening. Those with poor hearing can increase that to 1.2V peak to peak and those with very good hearing can add an in-line volume control to thier headphones.

Steve

> Did the LED digit make the cut?
>
> Is there going to be any kind of volume control, even if it is software
> controlled?
>

8045. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 01:54:06 UTC
From: Steven Carr
Topic: 8036 Message: 8045

Cool...it will arrive in time for the end of the world! ;-)

On 01/18/2012 05:40 PM, Steven wrote:
>
> It looks like I can fit a 2 band, single board (no plug in filters)
> variant of the 3B into an Altoids tin. The power and phone jacks are
> not mounted on the board, which will make putting it into other types
> of boxes easier. Bands will be selected using three DPDT slide
> switches in a manor similer to that used in the ATS-4's.
>
> I figure 2 bands is twice as good as 1 band, though it is only half as
> good as 4 bands. I also figure most SOTA operations happen on 20M
> (here in NA anyway) and if your out for an overnight, also having 40
> is nice. Plus you can use a single EFHW wire on both 40 and 20.
>
> Building for 80 or 30 would also be possible. The simplest thing for
> me to do would be to supply parts for all four band filters and let
> you decide which ones to use when you build it. To keep supply current
> absolutely minimum, the upper freq will be 20M.
>
> Now the best part, I think I can do this for less than $100. Not much
> but less, but less. Since I want to spend most of my summer away
> hiking, I suspect I should get on this post haste, eh?
>
> 72, Steve KD1JV
>
>

8046. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 01:55:57 UTC
From: John Evans - N0HJ
Topic: 8036 Message: 8046

BUT, will you build it before the end of the world ??? ;-)

On 1/18/2012 6:54 PM, Steven Carr wrote:
>
>
> Cool...it will arrive in time for the end of the world! ;-)
>
>
> On 01/18/2012 05:40 PM, Steven wrote:
>
>>
>> Now the best part, I think I can do this for less than $100. Not much
>> but less, but less. Since I want to spend most of my summer away
>> hiking, I suspect I should get on this post haste, eh?
>>
>> 72, Steve KD1JV
>>

8047. Re: [AT_Sprint] Re: ATS-3C "in line volume control" - suggestion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 02:23:30 UTC
From: Gil WA5YKK
Topic: 8047 Message: 8047

Steve, et all the group;

I had to think about the suggestion of a in-line volume control, then my memory did a quick flashback to a few days ago when I found that a Sony or other very portable CD player arrived for me to listen to, it has an FM tuner incorporated. To my surprise, a tiny piece of plastic turned out to be an inline volume control, and works quite well.
For anyone with a less-than-modern update on new items off the shelves, this one can probably be found and obtained almost anywhere, just "trust the Internet", and find the lowest price.

Just a suggestion, before my memory slips and I forget my next item in line.

Steve, you do a great job on packaging, now I have too many projects for the winter, am almost looking forward to frustration in all the different areas of construction from every kit. Keeping the brain cells going with a lot of thought makes for a challenge which is what we're all about.

Only one plea to all, I lost an old friend to cancer, so pray for a cure. It just "happened" to five of my past classmates and a favorite teacher, out of nowhere! Funerals are a difficult time for us all.

Best wishes, 73's
Gil WA5YKK

The LED digit is retained but there is no volume control as before. There simply isn't room for either a mechanical or digital one. Audio level will be limited to about 800 mV peak to peak, which is reasonably loud without being deafening. Those with poor hearing can increase that to 1.2V peak to peak and those with very good hearing can add an in-line volume control to thier headphones.

Steve

8048. WTB: ATS-3 or ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 02:30:17 UTC
From: luke_308
Topic: 8048 Message: 8048

Looking for an ATS-3 or 3B. I was planning on an Elecraft KX3 for my next rig, but with a baby due in 2 months my discretionary fund has been severely cut :)

Thanks!

Luke
KD0FIN

8049. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 02:43:14 UTC
From: John Aeiker
Topic: 8036 Message: 8049

Steve-
I like the concept; particularly having 2 bands on one filter board in a small footprint. I love my ATS3 but would enjoy working 2 bands without opening the lid. Although I'm ready to start building my ATS4b, I would really like to have your ATS3c as well as it fits a different niche use for me (overnight business trips).

Regards, John
WA8HSB

Sent from my iPhone.

On Jan 18, 2012, at 4:40 PM, "Steven" <steve.kd1jv@...> wrote:

> It looks like I can fit a 2 band, single board (no plug in filters) variant of the 3B into an Altoids tin. The power and phone jacks are not mounted on the board, which will make putting it into other types of boxes easier. Bands will be selected using three DPDT slide switches in a manor similer to that used in the ATS-4's.
>
> I figure 2 bands is twice as good as 1 band, though it is only half as good as 4 bands. I also figure most SOTA operations happen on 20M (here in NA anyway) and if your out for an overnight, also having 40 is nice. Plus you can use a single EFHW wire on both 40 and 20.
>
> Building for 80 or 30 would also be possible. The simplest thing for me to do would be to supply parts for all four band filters and let you decide which ones to use when you build it. To keep supply current absolutely minimum, the upper freq will be 20M.
>
> Now the best part, I think I can do this for less than $100. Not much but less, but less. Since I want to spend most of my summer away hiking, I suspect I should get on this post haste, eh?
>
> 72, Steve KD1JV
>
>

8050. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 03:10:48 UTC
From: mbhayden
Topic: 8036 Message: 8050

it sounds great. please make a lot of them! i will definitely get one.

mike AK3F

On Wed, Jan 18, 2012 at 5:40 PM, Steven <steve.kd1jv@...> wrote:

> **
>
>
> It looks like I can fit a 2 band, single board (no plug in filters)
> variant of the 3B into an Altoids tin. The power and phone jacks are not
> mounted on the board, which will make putting it into other types of boxes
> easier. Bands will be selected using three DPDT slide switches in a manor
> similer to that used in the ATS-4's.
>
> I figure 2 bands is twice as good as 1 band, though it is only half as
> good as 4 bands. I also figure most SOTA operations happen on 20M (here in
> NA anyway) and if your out for an overnight, also having 40 is nice. Plus
> you can use a single EFHW wire on both 40 and 20.
>
> Building for 80 or 30 would also be possible. The simplest thing for me to
> do would be to supply parts for all four band filters and let you decide
> which ones to use when you build it. To keep supply current absolutely
> minimum, the upper freq will be 20M.
>
> Now the best part, I think I can do this for less than $100. Not much but
> less, but less. Since I want to spend most of my summer away hiking, I
> suspect I should get on this post haste, eh?
>
> 72, Steve KD1JV
>
>
>

8051. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 03:31:38 UTC
From: rasteenb
Topic: 8036 Message: 8051

I'm in. Sounds awesome and I've got some mountains to climb around here.

Rob
KA8JBY

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> It looks like I can fit a 2 band, single board (no plug in filters) variant of the 3B into an Altoids tin. The power and phone jacks are not mounted on the board, which will make putting it into other types of boxes easier. Bands will be selected using three DPDT slide switches in a manor similer to that used in the ATS-4's.
>
> I figure 2 bands is twice as good as 1 band, though it is only half as good as 4 bands. I also figure most SOTA operations happen on 20M (here in NA anyway) and if your out for an overnight, also having 40 is nice. Plus you can use a single EFHW wire on both 40 and 20.
>
> Building for 80 or 30 would also be possible. The simplest thing for me to do would be to supply parts for all four band filters and let you decide which ones to use when you build it. To keep supply current absolutely minimum, the upper freq will be 20M.
>
> Now the best part, I think I can do this for less than $100. Not much but less, but less. Since I want to spend most of my summer away hiking, I suspect I should get on this post haste, eh?
>
> 72, Steve KD1JV
>

8052. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 03:59:36 UTC
From: Dale Putnam
Topic: 8036 Message: 8052

I love it so much, when a plan comes together!!!
Have a great day,
Dale - WC7S

-----Original Message-----
From: Steven <steve.kd1jv@...>
Date: Wed, 18 Jan 2012 22:40:32
To: <AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

It looks like I can fit a 2 band, single board (no plug in filters) variant of the 3B into an Altoids tin. The power and phone jacks are not mounted on the board, which will make putting it into other types of boxes easier. Bands will be selected using three DPDT slide switches in a manor similer to that used in the ATS-4's.

I figure 2 bands is twice as good as 1 band, though it is only half as good as 4 bands. I also figure most SOTA operations happen on 20M (here in NA anyway) and if your out for an overnight, also having 40 is nice. Plus you can use a single EFHW wire on both 40 and 20.

Building for 80 or 30 would also be possible. The simplest thing for me to do would be to supply parts for all four band filters and let you decide which ones to use when you build it. To keep supply current absolutely minimum, the upper freq will be 20M.

Now the best part, I think I can do this for less than $100. Not much but less, but less. Since I want to spend most of my summer away hiking, I suspect I should get on this post haste, eh?

72, Steve KD1JV

8053. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 04:03:22 UTC
From: Paul Mateer
Topic: 8036 Message: 8053

Sounds GREAT Steve!!!

On Wed, Jan 18, 2012 at 9:59 PM, Dale Putnam <daleputnam@...> wrote:
> I love it so much, when a plan comes together!!!
> Have a great day,
> Dale - WC7S
>
> -----Original Message-----
> From: Steven <steve.kd1jv@...>
> Date: Wed, 18 Jan 2012 22:40:32
> To: <AT_Sprint@yahoogroups.com>
> Subject: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)
>
>
>
>
>
> It looks like I can fit a 2 band, single board (no plug in filters) variant of the 3B into an Altoids tin. The power and phone jacks are not mounted on the board, which will make putting it into other types of boxes easier. Bands will be selected using three DPDT slide switches in a manor similer to that used in the ATS-4's.
>
> I figure 2 bands is twice as good as 1 band, though it is only half as good as 4 bands. I also figure most SOTA operations happen on 20M (here in NA anyway) and if your out for an overnight, also having 40 is nice. Plus you can use a single EFHW wire on both 40 and 20.
>
> Building for 80 or 30 would also be possible. The simplest thing for me to do would be to supply parts for all four band filters and let you decide which ones to use when you build it. To keep supply current absolutely minimum, the upper freq will be 20M.
>
> Now the best part, I think I can do this for less than $100. Not much but less, but less. Since I want to spend most of my summer away hiking, I suspect I should get on this post haste, eh?
>
> 72, Steve KD1JV
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> Yahoo! Groups Links
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Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8054. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 04:48:55 UTC
From: Randy Moore
Topic: 8036 Message: 8054

Count me in, Steve!

73,
Randy, KS4L

On Jan 18, 2012, at 4:40 PM, "Steven" <steve.kd1jv@...> wrote:

> It looks like I can fit a 2 band, single board (no plug in filters) variant of the 3B into an Altoids tin. The power and phone jacks are not mounted on the board, which will make putting it into other types of boxes easier. Bands will be selected using three DPDT slide switches in a manor similer to that used in the ATS-4's.
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> I figure 2 bands is twice as good as 1 band, though it is only half as good as 4 bands. I also figure most SOTA operations happen on 20M (here in NA anyway) and if your out for an overnight, also having 40 is nice. Plus you can use a single EFHW wire on both 40 and 20.
>
> Building for 80 or 30 would also be possible. The simplest thing for me to do would be to supply parts for all four band filters and let you decide which ones to use when you build it. To keep supply current absolutely minimum, the upper freq will be 20M.
>
> Now the best part, I think I can do this for less than $100. Not much but less, but less. Since I want to spend most of my summer away hiking, I suspect I should get on this post haste, eh?
>
> 72, Steve KD1JV
>
>

8055. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 06:05:48 UTC
From: Anthony
Topic: 8036 Message: 8055

I second that! It sounds like a great addition to the AT family. A 2 band kit (20M & 40M) in an Altoids tin for around $100.00 or less sounds perfect!
Anthony W6GC
--- In AT_Sprint@yahoogroups.com, mbhayden <mbhayden@...> wrote:
>
> it sounds great. please make a lot of them! i will definitely get one.
>
> mike AK3F

8056. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 08:22:02 UTC
From: Vojtech
Topic: 8036 Message: 8056

20m and 40m is a perfect choice for a 2 band SOTA rig.

Would the switches be accessible from inside the tin, or from the top? Each has its own, I personally would hate to make the three holes.

> Now the best part, I think I can do this for less than $100.

Guess you will run at least two hundred of these. For a hundred dollars people will tear your hands away, as one Czech proverb goes.

GL, Vojtech

8057. Re: [AT_Sprint] WTB: ATS-3 or ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 08:01:28 UTC
From: Mike
Topic: 8048 Message: 8057

Luke , I have for sell an unbuild ATS-
3B .
Mike

On Jan 18, 2012, at 9:30 PM, "luke_308" <aurich85@yahoo.com> wrote:

> Looking for an ATS-3 or 3B. I was planning on an Elecraft KX3 for my next rig, but with a baby due in 2 months my discretionary fund has been severely cut :)
>
> Thanks!
>
> Luke
> KD0FIN
>
>

8058. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 12:41:07 UTC
From: Tim W4YN
Topic: 8036 Message: 8058

Steve count me in, sounds great to me, maybe 2, one for winter camping and one for summer camping. I have two K1's set up that way.

I use earphones with built in volume slider on cord so I am fine with fixed volume to save space.
Tim W4YN

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> The LED digit is retained but there is no volume control as before. There
> simply isn't room for either a mechanical or digital one. Audio level will
> be limited to about 800 mV peak to peak, which is reasonably loud without
> being deafening. Those with poor hearing can increase that to 1.2V peak to
> peak and those with very good hearing can add an in-line volume control to
> thier headphones.
>
> Steve
>
> > Did the LED digit make the cut?
> >
> > Is there going to be any kind of volume control, even if it is software
> > controlled?
> >
>

8059. ATS II Kits available

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 12:45:38 UTC
From: Tim W4YN
Topic: 8059 Message: 8059

If anyone is in interested I have 2 unbilt ATS II kits with cases available. Contact off list.
Tim W4YN

8060. RE: [AT_Sprint] ATS II Kits available

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 13:20:48 UTC
From: Dale Putnam
Topic: 8059 Message: 8060

Those are the sweetest kits. Very nicely put together. What would you be expecting to get for them?Any interest in trades for ??Would you want one built for yourself? I would do that for you for no charge.
Have a great day,
--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: w4yn@...
Date: Thu, 19 Jan 2012 12:45:38 +0000
Subject: [AT_Sprint] ATS II Kits available

If anyone is in interested I have 2 unbilt ATS II kits with cases available. Contact off list.

Tim W4YN

8061. Re: [AT_Sprint] ATS II Kits available

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 13:47:15 UTC
From: Hank Greeb
Topic: 8059 Message: 8061

I'm interested. Tell me the difference between the ATS II and the ATS 3?

How much $$'s?

72/73 de n8xx Hg

On 1/19/2012 7:45 AM, Tim W4YN wrote:
> If anyone is in interested I have 2 unbilt ATS II kits with cases available. Contact off list.
> Tim W4YN

8062. Re: MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 14:06:58 UTC
From: Fred Maas
Topic: 8062 Message: 8062

More Morse. Less filling.

FD - kt5x

I second that! It sounds like a great addition to the AT family. A 2 band kit (20M & 40M) in an Altoids tin for around $100.00 or less sounds perfect!

Anthony W6GC
--- In AT_Sprint@yahoogroups.com, mbhayden <mbhayden@...> wrote:
>
> it sounds great. please make a lot of them! i will definitely get one.
>
> mike AK3F

8063. Re: [AT_Sprint] ATS II Kits available

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 14:15:19 UTC
From: Lee Hiers
Topic: 8059 Message: 8063

On Thu, Jan 19, 2012 at 8:47 AM, Hank Greeb <n8xx@...> wrote:

> I'm interested. Tell me the difference between the ATS II and the ATS 3?
>

Here's Jim Larson's page on his ATS-II build:
http://www.al7fs.us/AL7FS5ATSprint2.html

8064. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 14:38:22 UTC
From: ve3wmb
Topic: 8036 Message: 8064

Great idea Steve !

The 40m/20m combo is perfect for SOTA and portable QRP in general.

Anyone who has ever tried to swap ATS band modules in the dark, or with freezing fingers will appreciate this rig. Four bands are great, but sometimes "less is more" and I think that having a pocket-sized dual bander would be awesome.

I think that you should break with the ATS naming convention and call it "Katahdin", or name it after some other AT Peak.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> It looks like I can fit a 2 band, single board (no plug in filters) variant of the 3B into an Altoids tin. The power and phone jacks are not mounted on the board, which will make putting it into other types of boxes easier. Bands will be selected using three DPDT slide switches in a manor similer to that used in the ATS-4's.
>

8065. LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 14:58:29 UTC
From: Fred Maas
Topic: 8065 Message: 8065
Attachments: 1 described; binary payloads are missing from this source WARC

In the spirit of sharing ideas ... may be useful to others, or perhaps someone has a yet even better idea !!!

I made three cases for my Altoids tin ATS3B. Each of the first two times, there was something that didn't quite satisfy me about it. the most difficult was the square hole for the LED. In the end, here is how I solved it.

The problem: I kept winding up with ragged metal around the hole.

The solution:

* Cover the area (or the whole surface) with masking tape.

* Draw the square.

* Draw the diagonals.

* drill a small hole where the diagonals cross, the center in other words.

* with a tiny jeweler's saw (which is a tiny coping saw) run the balde through the hole and reinstall it in the frame of the saw.

* cut all four of the diagonal lines.

* and finally, fold the triangles under and behind, making a rolled surface of the edge of the hole.

Here's a photo of the result.

72, Fred - kt5x

8066. Re: [AT_Sprint] LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 15:15:46 UTC
From: Bob Cutter
Topic: 8065 Message: 8066

Very fine work and a good idea, thanks.

73, Bob KIØG

>

8067. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 15:32:16 UTC
From: Eric Castro (VA3AMX)
Topic: 8036 Message: 8067

Steve, I'm in … 2 bands (40/20) for SOTA will be awesome!

72/73
Eric - VA3AMX

8068. Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 15:32:52 UTC
From: tlcfarmer@yahoo.com
Topic: 8065 Message: 8068

I don't see your photo. Maybe you could upload it to the photos section of the group?

Thanks

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com, "Fred Maas" <just.one.hill@...> wrote:
>
> In the spirit of sharing ideas ... may be useful to others, or perhaps someone has a yet even better idea !!!
>
>
> I made three cases for my Altoids tin ATS3B. Each of the first two times, there was something that didn't quite satisfy me about it. the most difficult was the square hole for the LED. In the end, here is how I solved it.
>
> The problem: I kept winding up with ragged metal around the hole.
>
> The solution:
>
> * Cover the area (or the whole surface) with masking tape.
>
> * Draw the square.
>
> * Draw the diagonals.
>
> * drill a small hole where the diagonals cross, the center in other words.
>
> * with a tiny jeweler's saw (which is a tiny coping saw) run the balde through the hole and reinstall it in the frame of the saw.
>
> * cut all four of the diagonal lines.
>
> * and finally, fold the triangles under and behind, making a rolled surface of the edge of the hole.
>
> Here's a photo of the result.
>
> 72, Fred - kt5x
>

8069. Re: [AT_Sprint] Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 15:44:02 UTC
From: Fred Maas
Topic: 8065 Message: 8069

I can not as I am not a "member" of Yahoo and don't want to be.

But you probably can change a setting on your computer, in your e-mailer, to allow HTML, then you will see it.

FD

I don't see your photo. Maybe you could upload it to the photos section of the group?

Thanks

Lincoln
N9IN

8070. Re: [AT_Sprint] Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 16:08:08 UTC
From: Michael Harnage
Topic: 8065 Message: 8070

You don't have to be a member of yahoo to post to the group. You are already a member of the group so you can post to the photos section. I've gone ahead and done it. Here is a link:

http://groups.yahoo.com/group/AT_Sprint/photos/album/56965586/pic/710165149/view?picmode=&mode=tn&order=ordinal&start=1&count=20&dir=asc

73 de w1mt /mike

>_____
> From: Fred Maas <just.one.hill@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Thursday, January 19, 2012 10:44 AM
>Subject: Re: [AT_Sprint] Re: LED hole in Altoids tin - MTR
>
>
>
>
>
>
>I can not as I am not a "member" of Yahoo and don't want
to be.
>
>
>

8071. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 16:08:41 UTC
From: andrew.cross
Topic: 8036 Message: 8071

Excellent news! That's just what I was hoping for, please count me in.

Good luck getting it ready, Steve. For what its worth I like the name MTR.

All the best

Andrew
M0ONZ

8072. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 16:09:37 UTC
From: Håkan Olsson
Topic: 8036 Message: 8072

Well, it would be nice to have a back-up rig for the ATS-4b.
A two bander for 80 and 40 meters would be something for the upcoming season?s SMFF-activity.
Not that I really need one, but it?s fun to build these things.
So I guess I will order one too. :-)

H?kan / SM6EQO
http://hem.bredband.net/b101180/

8073. RE: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 16:34:36 UTC
From: Ken Lotts
Topic: 8036 Message: 8073

I too find the ATS rigs irresistible.. I have four and I am sure if a new one comes out, I will dive in and get it as well.

I keep telling myself that I can learn the MSP430 code and really personalize it (especially the keyer).

I will erase all the digi mode stuff if that is what it takes to make the keyer work right.

I have never been satisfied with the keyer on the ATS3. I just cannot use it without frequent errors.

Ken Lotts

AA7JC

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Håkan Olsson
Sent: Thursday, January 19, 2012 9:10 AM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Well, it would be nice to have a back-up rig for the ATS-4b.
A two bander for 80 and 40 meters would be something for the upcoming season´s SMFF-activity.
Not that I really need one, but it´s fun to build these things.
So I guess I will order one too. :-)

Håkan / SM6EQO
http://hem.bredband.net/b101180/

8074. Re: [AT_Sprint] Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 16:55:27 UTC
From: Fred Maas
Topic: 8065 Message: 8074

In fact, it won't let me go there. I do have to be a member of Yahoo to either post or view it.

TNX for posting it!

fd

----- Original Message -----
From: Michael Harnage
To: AT_Sprint@yahoogroups.com
Sent: Thursday, January 19, 2012 9:08 AM
Subject: Re: [AT_Sprint] Re: LED hole in Altoids tin - MTR

You don't have to be a member of yahoo to post to the group. You are already a member of the group so you can post to the photos section. I've gone ahead and done it. Here is a link:

http://groups.yahoo.com/group/AT_Sprint/photos/album/56965586/pic/710165149/view?picmode=&mode=tn&order=ordinal&start=1&count=20&dir=asc

73 de w1mt /mike

8075. Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 17:26:00 UTC
From: Gil WA5YKK
Topic: 8065 Message: 8075

Fred,

Good job, I'll give that idea a try when my small hill of mess in my hobby rooms allow for playtime again. Nice paint scheme, overall well done.

Curious, I have no idea why anyone else has any problem with seeing the picutre, I use Thunderbird which clears everything.

73's
Gil WA5YKK

8076. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 17:28:37 UTC
From: Colin Tuckley
Topic: 8036 Message: 8076

On 19/01/12 16:34, Ken Lotts wrote:

> I have never been satisfied with the keyer on the ATS3. I just cannot
> use it without frequent errors.

The W1MT firmware has a better keyer algorithm and improved memory
control too. see http://w1mt.qrpradio.com/ats3.html

73

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

I'm a nobody, nobody is perfect, therefore I'm perfect.

8077. Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 17:34:42 UTC
From: tlcfarmer@yahoo.com
Topic: 8065 Message: 8077

I don't get the individual emails. I am a member of 27 groups, the individual emails would be massive overload. Yahoo strips the pictures from the group message list.

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com, Gil WA5YKK <WA5YKK@...> wrote:
>
> Fred,
>
> Good job, I'll give that idea a try when my small hill of mess in my
> hobby rooms allow for playtime again. Nice paint scheme, overall well done.
>
> Curious, I have no idea why anyone else has any problem with seeing the
> picutre, I use Thunderbird which clears everything.
>
> 73's
> Gil WA5YKK
>

8078. Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 17:51:38 UTC
From: Fred Maas
Topic: 8065 Message: 8078

If their e-mail is set on text only, they won't see it.

fd

Fred,

Good job, I'll give that idea a try when my small hill of mess in my hobby rooms allow for playtime again. Nice paint scheme, overall well done.

Curious, I have no idea why anyone else has any problem with seeing the picutre, I use Thunderbird which clears everything.

73's
Gil WA5YKK

8079. Re: [AT_Sprint] Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 17:52:16 UTC
From: Fred Maas
Topic: 8065 Message: 8079

And that's the OTHER reason ;-)

fd
I don't get the individual emails. I am a member of 27 groups, the individual emails would be massive overload. Yahoo strips the pictures from the group message list.

Lincoln
N9IN

8080. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 17:55:06 UTC
From: Steven Weber
Topic: 8036 Message: 8080

I have never been satisfied with the keyer on the ATS3. I just cannot use it without frequent errors.

I don't understand this. Can you expand on what the frequent errors are and what seems to cause them?

I have found the rigs don't like dirty key contacts, maybe due to the low voltage/current the ports work at.

Steve

8081. Re: [AT_Sprint] ATS-3B Keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 18:06:36 UTC
From: Colin Tuckley
Topic: 8036 Message: 8081

On 19/01/12 17:55, Steven Weber wrote:

> I don't understand this. Can you expand on what the frequent errors are
> and what seems to cause them?

I too find it more difficult to use, I've got several other keyers and
the one on the ATS3-B seems the most error prone.

Mike's (W1MT) firmware is different, haven't tried it so can't say if
it's better.

> I have found the rigs don't like dirty key contacts, maybe due to the
> low voltage/current the ports work at.

Might also be a factor.

On an allied subject, if I wanted to use the ATS-3B as a practice
oscillator without connecting a dummy load is it enough to remove the
band module to protect the PA?

73

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

I'm a nobody, nobody is perfect, therefore I'm perfect.

8082. Screwed up code from Electronic Keyers

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 18:13:03 UTC
From: Hank Greeb
Topic: 8036 Message: 8082

I too, have never been satisfied with the keyer on the ATS3. I just cannot use it without frequent errors. Of course, I can't send anything resembling International Morse Code, even my own call, with ANY Electronic Keyer, except one with a keyboard. In the daze before computer generated code, I was living in SW Ohio, and folks accused me of having a "Lake Erie Swing" when I used my Vibroplex Blue Racer bug. It seemed the initial DASH of a word (and somewhat each character) was lengthened quite a bit.

Since I've been listening to the computer generated code which I send whilst on contests, I find I can send better when I attempt to send a complete thought, but I make enough errors that I won't actually force anyone to struggle through copying such sending.

For the life of me, I don't understand why folks insist on butchering the code by attempting to use an electronic keyer when they often can't even send their own call twice in a row without a misteak.

I've been known to send a stack of 20 or more formal NTS messages to the receiving station with only an occasional "R" between, nary a mistook in a 15 or 20 minute transmission. (That was in my earlier daze - I haven't tried it for several years.)

72/73 de n8xx Hg

8083. Re: [AT_Sprint] Keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 18:31:35 UTC
From: Michael Harnage
Topic: 8036 Message: 8083

It's an issue with the timing of the firmware and not the hardware. If you used another keyer and got used to it at 25+ wpm, the keyer in the ATS rigs will give you fits.

My version of firmware is an attempt to get closer to the standard Mode A and Mode B timing, using the idea of latches. You have to check during the middle of the current character then use a latch to get the timing just right. Especially, important for Mode B. Some ops like the latch at 50% some earlier and some later. But without the latching and only checking at the end of the character havoc is wreaked on high speed ops.

Caveat, I am not a high speed op, but I have worked with a few to get the Mode B keyer in my firmware to their satisfaction.

Unfortunately, there is no standard to follow but most other keyers use this type of algorithm for Mode B.

mike/w1mt

>_____
>
>I don't understand this. Can you expand on what the frequent errors are and what seems to cause them?
>
>I have found the rigs don't like dirty key contacts, maybe due to the low voltage/current the ports work at.
>

8084. Re: ATS II Kits available

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 18:33:36 UTC
From: Tim W4YN
Topic: 8059 Message: 8084

I built mine already, had 2 more for friends that did not work out.
I believe all are spoken for now.
Tim

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Those are the sweetest kits. Very nicely put together. What would you be expecting to get for them?Any interest in trades for ??Would you want one built for yourself? I would do that for you for no charge.
> Have a great day,
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: w4yn@...
> Date: Thu, 19 Jan 2012 12:45:38 +0000
> Subject: [AT_Sprint] ATS II Kits available
>
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>

> If anyone is in interested I have 2 unbilt ATS II kits with cases available. Contact off list.
>
> Tim W4YN
>

8085. Re: [AT_Sprint] Keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 18:38:34 UTC
From: Colin Tuckley
Topic: 8036 Message: 8085

On 19/01/12 18:31, Michael Harnage wrote:

> You have to check during
> the middle of the current character...

I think you mean element (a dot or dash) rather than character.

73

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

Second star to the right & straight on till morning...

8086. RE: [AT_Sprint] Keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 18:41:41 UTC
From: Jake, ON4YZ
Topic: 8036 Message: 8086

Hi,

I couldn't get used to Mode B (which is the only mode available in my KENWOOD TS-570D). I solved the problem by using a single lever paddle...

73 de Jake - ON4YZ

>>Some ops like the latch at 50% some earlier and some later. But without the latching and only checking at the end of the character havoc is wreaked on high speed ops.
>>Caveat, I am not a high speed op, but I have worked with a few to get the Mode B keyer in my firmware to their satisfaction.
>>Unfortunately, there is no standard to follow but most other keyers use this type of algorithm for Mode B.
>>mike/w1mt

8087. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 18:49:14 UTC
From: Benny
Topic: 8036 Message: 8087

This sounds like lots of fun even without any mountain in near sight. Pitty though for no casing (my drills don't seem to like the little tins very much + you did a great job on the ats4 case). But I'll still buy (at least) one if I get the chance :-)
For that price & looking at the current feedback I'm guessing you will brake another "sold-out" record.
Guess I will need to keep an eye on this group for your posts even more than before... any idea when the idea transforms itself into a production?
(One might consider setting up a poll in this group, it could give you an idea on the targeted quantity...)

Anyway, great thinking!

Br, Benny.

8088. RE: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 18:51:07 UTC
From: Ken Lotts
Topic: 8036 Message: 8088

Steve,

I am at work, When I get home I will play around and see if I can explain it.. If I recall correctly, I seem to get unexpected extra dits at the end of certain characters. My paddle is capacitive touch pads (see my album in the yahoo groups site. I will eliminate the paddle for the test by using my home paddle.

Ken

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Thursday, January 19, 2012 10:55 AM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

I have never been satisfied with the keyer on the ATS3. I just cannot use it without frequent errors.

I don't understand this. Can you expand on what the frequent errors are and what seems to cause them?

I have found the rigs don't like dirty key contacts, maybe due to the low voltage/current the ports work at.

Steve

8089. Re: [AT_Sprint] Keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 18:55:24 UTC
From: Michael Harnage
Topic: 8036 Message: 8089

Yep. It's been a few years since I played in this area. It's a messy complicated endeavor for sure.

----- Original Message -----

>
> I think you mean element (a dot or dash) rather than character.
>

8090. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 18:57:28 UTC
From: ve3wmb
Topic: 8036 Message: 8090

Steve :

This is likely the same issue the I encountered with the Iambic B timing being too tight in the ATS3A. I bet he is an Iambic B user. I have the most problem with sending "R" s.
One of these days I need to re-flash my ATS-3B with Mike's fix.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> I have never been satisfied with the keyer on the ATS3. I just cannot use it without frequent errors.
>
> I don't understand this. Can you expand on what the frequent errors are and what seems to cause them?
>
> I have found the rigs don't like dirty key contacts, maybe due to the low voltage/current the ports work at.
>
> Steve
>

8091. keyer timing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 19:09:43 UTC
From: Steven Carr
Topic: 8036 Message: 8091

yeah...it should be that all modern keyers behave the same (depending on mode) because they should all be running the same algorithm. unfortunately they don't and the reason is that it is difficult for a developer to find information on the "proper" algorithm for the timing of a iambic keyer. many years ago while coding firmware for a keyer I tried to research this and never did find a proper answer. that there are now so many versions of cw keyer based on different designers doesn't help when trying to reverse engineer what "proper" cw keyer timing is.

when I tried reverse engineering proper keyer timing I made a couple assumptions. first, keyers were developed before microcontrollers were common so everything needed to remain simple for a hardware only design thus there are no special timing delays. second, the difference between Iambic A and Iambic B was whether actual or latched paddle inputs were used. here's what I came up with...

Iambic A: when it comes time to key out the next element (dit or dah), the paddle inputs are checked and a dit or dah keyed out depending on actual paddle inputs.

Iambic B: when it comes time to key out the next element, latched paddle inputs are checked and a dit or dah keyed out depending on the latched paddle inputs. the start of keying out the new element clears the input latches.

has anyone researched this and found the "proper" keyer timing algorithm? also I'd be curious (but am now too busy to read the code) about the actual algorithm used in the ATS rigs, as well as the W1MT versions.

Steve (ae4yq)

On 01/19/2012 12:28 PM, Colin Tuckley wrote:
>
> On 19/01/12 16:34, Ken Lotts wrote:
>
> > I have never been satisfied with the keyer on the ATS3. I just cannot
> > use it without frequent errors.
>
> The W1MT firmware has a better keyer algorithm and improved memory
> control too. see http://w1mt.qrpradio.com/ats3.html
>
> 73
>
> Colin G8TMV

```
>
> --
> Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
> Debian Developer | +44(0)7799 143369 | 0x1B3045CE
>
> I'm a nobody, nobody is perfect, therefore I'm perfect.
>
>
```

8092. Re: [AT_Sprint] Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 19:18:03 UTC
From: Gil WA5YKK
Topic: 8065 Message: 8092

Lincoln;

Excuse me, but I got the picture directly off the Yahoo list, not an individual return. Too bad you didn't get the picture, it's one of the best I've seen and printed out. Not a clue here about anyone's problems, just the facts.

73's
Gil WA5YKK

On 1/19/2012 11:34 AM, tlcfarmer@... wrote:
>
> I don't get the individual emails. I am a member of 27 groups, the
> individual emails would be massive overload. Yahoo strips the pictures
> from the group message list.
>
> Lincoln
> N9IN
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>,
> Gil WA5YKK <WA5YKK@...> wrote:
> >
> > Fred,
> >
> > Good job, I'll give that idea a try when my small hill of mess in my
> > hobby rooms allow for playtime again. Nice paint scheme, overall
> well done.
> >
> > Curious, I have no idea why anyone else has any problem with seeing the
> > picutre, I use Thunderbird which clears everything.
> >
> > 73's
> > Gil WA5YKK
> >
>
>

8093. Re: [AT_Sprint] Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 19:19:40 UTC
From: Gil WA5YKK
Topic: 8065 Message: 8093

OK, I "learnt" something, never have tinkered with the settings.

73's
Gil

On 1/19/2012 11:52 AM, Fred Maas wrote:
>
> And that's the OTHER reason ;-)
> fd
>
> I don't get the individual emails. I am a member of 27 groups, the
> individual emails would be massive overload. Yahoo strips the pictures
> from the group message list.
>
> Lincoln
> N9IN
>
>

8094. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 19:27:17 UTC
From: Steven Weber
Topic: 8036 Message: 8094

Yes, the B mode it the one which is most confusing and I had a hard time figuring out what the "standard" algrithum for implenting it was. The way the 3 series works is it tests for "both paddles closed" at the end of a dot or dash element. i.e., at the start of the inter-element space.

I have since learned that proper B mode is ANY time both paddles are closed, add the extra element to the end of the string. So, that is the way the keyer in the -4 works and any future rigs.

Personally, I find B mode a little too touchy no matter how it's implemented and much perfer A mode.

Steve

> This is likely the same issue the I encountered with the Iambic B timing
> being too tight in the ATS3A. I bet he is an Iambic B user. I have the
> most problem with sending "R" s.
> One of these days I need to re-flash my ATS-3B with Mike's fix.
>

8095. Any other ATS II Kits or completed rigs available?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 19:55:02 UTC
From: Hank Greeb
Topic: 8059 Message: 8095

Shucky durn, I didn't speak up quickly enough on the latest offering for an AT-Sprint Version II.

I'm still looking for an ATS II either built or kit. I have the orginal version, and a ATS-3b, so the ATS II would fill out the series. Please contact me direct if anyone has one which they'd be willing to sell.

72/73 de n8xx Hg

8096. ats-3c

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 20:03:43 UTC
From: charles
Topic: 8096 Message: 8096

I'm in! Thanks! de charles ai4ot.

8097. Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 20:12:10 UTC
From: tlcfarmer@yahoo.com
Topic: 8065 Message: 8097

Hmm, I have it set to html(fully featured) in membership settings. I don't know why it does not show up.

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com, Gil WA5YKK <WA5YKK@...> wrote:
>
> Lincoln;
>
> Excuse me, but I got the picture directly off the Yahoo list, not an
> individual return. Too bad you didn't get the picture, it's one of the
> best I've seen and printed out. Not a clue here about anyone's problems,
> just the facts.
>
> 73's
> Gil WA5YKK
>
>
>
>
> On 1/19/2012 11:34 AM, tlcfarmer@... wrote:
> >
> > I don't get the individual emails. I am a member of 27 groups, the
> > individual emails would be massive overload. Yahoo strips the pictures
> > from the group message list.
> >
> > Lincoln
> > N9IN
> >
> > --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>,
> > Gil WA5YKK <WA5YKK@> wrote:
> > >
> > > Fred,
> > >
> > > Good job, I'll give that idea a try when my small hill of mess in my
> > > hobby rooms allow for playtime again. Nice paint scheme, overall
> > well done.
> > >
> > > Curious, I have no idea why anyone else has any problem with seeing the
> > > picutre, I use Thunderbird which clears everything.
> > >
> > > 73's
> > > Gil WA5YKK
> > >

> >
> >
>

8098. Re: [AT_Sprint] Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 20:29:00 UTC
From: Fred Maas
Topic: 8065 Message: 8098

What about in the e-mailer on your computer?

fd

Hmm, I have it set to html(fully featured) in membership settings. I don't know why it does not show up.

Lincoln
N9IN

--

8099. Re: [AT_Sprint] Re: LED hole in Altoids tin - MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 20:32:12 UTC
From: Stephen Wandling
Topic: 8065 Message: 8099

I believe he is getting the digest and maybe it does strip attachments?

72
Stephen
VE7NSD

On 19/01/2012 12:12 PM, tlcfarmer@... wrote:
> Hmm, I have it set to html(fully featured) in membership settings. I don't know why it does not show up.
>
> Lincoln
> N9IN
>
> --- In AT_Sprint@yahoogroups.com, Gil WA5YKK<WA5YKK@...> wrote:
>
>> Lincoln;
>>
>> Excuse me, but I got the picture directly off the Yahoo list, not an
>> individual return. Too bad you didn't get the picture, it's one of the
>> best I've seen and printed out. Not a clue here about anyone's problems,
>> just the facts.
>>
>> 73's
>> Gil WA5YKK
>>
>>
>>
>>
>> On 1/19/2012 11:34 AM, tlcfarmer@... wrote:
>>
>>> I don't get the individual emails. I am a member of 27 groups, the
>>> individual emails would be massive overload. Yahoo strips the pictures
>>> from the group message list.
>>>
>>> Lincoln
>>> N9IN
>>>
>>> --- In AT_Sprint@yahoogroups.com<mailto:AT_Sprint%40yahoogroups.com>,
>>> Gil WA5YKK<WA5YKK@> wrote:
>>>
>>>> Fred,
>>>>
>>>> Good job, I'll give that idea a try when my small hill of mess in my
>>>> hobby rooms allow for playtime again. Nice paint scheme, overall
>>>>

>>> well done.
>>>
>>>> Curious, I have no idea why anyone else has any problem with seeing the
>>>> picutre, I use Thunderbird which clears everything.
>>>>
>>>> 73's
>>>> Gil WA5YKK
>>>>
>>>>
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>>>
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>
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> ----------
>
> Yahoo! Groups Links
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>

8100. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 23:26:40 UTC
From: WA0ITP
Topic: 8036 Message: 8100

I'll supply free labels to all who want them, something like this http://www.wa0itp.com/ats3.html only with whatever name Steve wants to call them. Maybe something like these? ATS3-2, ATS/MTR, SOTA Special, ATS3 40/20, or ??

Back to the bench, Winter's too valuable to waste.
I love this radio stuff !
72, 73 Terry, WA?ITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "Steven" <steve.kd1jv@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Wednesday, January 18, 2012 4:40 PM
Subject: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

| It looks like I can fit a 2 band, single board (no plug in filters) variant of the 3B into an Altoids tin. The power and phone jacks are not mounted on the board, which will make putting it into other types of boxes easier. Bands will be selected using three DPDT slide switches in a manor similer to that used in the ATS-4's.
|
| I figure 2 bands is twice as good as 1 band, though it is only half as good as 4 bands. I also figure most SOTA operations happen on 20M (here in NA anyway) and if your out for an overnight, also having 40 is nice. Plus you can use a single EFHW wire on both 40 and 20.
|
| Building for 80 or 30 would also be possible. The simplest thing for me to do would be to supply parts for all four band filters and let you decide which ones to use when you build it. To keep supply current absolutely minimum, the upper freq will be 20M.
|
| Now the best part, I think I can do this for less than $100. Not much but less, but less. Since I want to spend most of my summer away hiking, I suspect I should get on this post haste, eh?
|
| 72, Steve KD1JV
|
|
|
| ---
|

| Yahoo! Groups Links
|
|
|

8101. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 23:29:14 UTC
From: Milton A Riutort
Topic: 8036 Message: 8101

Steve:

Is it possible to use 5 way jog switch instead of the four actual control buttons? I think that this may make it a little easier to operate and you can create a volume control on it. By the way, one switch use less space on the board too.

I like the MTR name more than use one of the Appalachian names, but this does not matter if the radio is as good as the others with a new simple user interface.

73 de Milton, NP4KT

Sent from my iPhone

On Jan 18, 2012, at 6:40 PM, "Steven" <steve.kd1jv@...> wrote:

> It looks like I can fit a 2 band, single board (no plug in filters) variant of the 3B into an Altoids tin. The power and phone jacks are not mounted on the board, which will make putting it into other types of boxes easier. Bands will be selected using three DPDT slide switches in a manor similer to that used in the ATS-4's.
>
> I figure 2 bands is twice as good as 1 band, though it is only half as good as 4 bands. I also figure most SOTA operations happen on 20M (here in NA anyway) and if your out for an overnight, also having 40 is nice. Plus you can use a single EFHW wire on both 40 and 20.
>
> Building for 80 or 30 would also be possible. The simplest thing for me to do would be to supply parts for all four band filters and let you decide which ones to use when you build it. To keep supply current absolutely minimum, the upper freq will be 20M.
>
> Now the best part, I think I can do this for less than $100. Not much but less, but less. Since I want to spend most of my summer away hiking, I suspect I should get on this post haste, eh?
>
> 72, Steve KD1JV
>
>

8102. Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 23:31:25 UTC
From: WA0ITP
Topic: 8036 Message: 8102

I've also made a lot of keying errors with the ATS3, but it wasnt the keyers fault :o)

Back to the bench, Winter's too valuable to waste.
I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Thursday, January 19, 2012 11:55 AM
Subject: Re: [AT_Sprint] ATS-3C or maybe MTR (mountian top rig)

I have never been satisfied with the keyer on the ATS3. I just cannot use it without frequent errors.

I don't understand this. Can you expand on what the frequent errors are and what seems to cause them?

I have found the rigs don't like dirty key contacts, maybe due to the low voltage/current the ports work at.

Steve

8103. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 23:34:39 UTC
From: WA0ITP
Topic: 8036 Message: 8103

Benny, dont drill - punch instead. Check out section 4 in this manual
http://www.wa0itp.com/aa0zzezkeyermanual2007.pdf

Back to the bench, Winter's too valuable to waste.
I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@wa0itp.com
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: Benny
To: AT_Sprint@yahoogroups.com
Sent: Thursday, January 19, 2012 12:49 PM
Subject: [AT_Sprint] Re: ATS-3C or maybe MTR (mountian top rig)

This sounds like lots of fun even without any mountain in near sight. Pitty though for no casing (my drills don't seem to like the little tins very much + you did a great job on the ats4 case). But I'll still buy (at least) one if I get the chance :-)
For that price & looking at the current feedback I'm guessing you will brake another "sold-out" record.
Guess I will need to keep an eye on this group for your posts even more than before... any idea when the idea transforms itself into a production?
(One might consider setting up a poll in this group, it could give you an idea on the targeted quantity...)

Anyway, great thinking!

Br, Benny.

8104. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 23:40:36 UTC
From: Steven Carr
Topic: 8036 Message: 8104

I'd also read the "add extra element..." description, but it never sat well with me. It always seemed like a description by someone who had used a keyer but wasn't concerned with technical implementation details, and it never helped me determine how the keyer timing was supposed to be. I decided that the "extra element" is not intentionally added, it is merely an inherent function of input latching.

Earlier today I described my thinking on Iambic B (when it comes time to key out the next element, latched paddle inputs are checked and a dit or dah keyed out depending on the latched paddle inputs. the start of keying out the new element clears the input latches.). Then I saw W1MT Mike's comments about latching at 50%, which reminded me of an old discrete logic design I had examined.

The discrete logic design acted just as I previously described, except that instead of clearing the input latches at the beginning of the next element as I did, the discrete logic design waited a half clock cycle (1 clk = 1 dit) to clear the input latches. waiting that half clock cycle creates a window where a paddle input might not be detected so I saw that delay as a deviation from the ideal timing easily achieved with software, however the delay also removed the potential of a race condition therefore was probably a good compromise in simplifying the discrete logic design.

Fortunately this is all software/firmware, making it less urgent than laying down copper so Steve need not worry about it for a couple months.

Steve (ae4yq)

On 01/19/2012 02:27 PM, Steven Weber wrote:
>
> Yes, the B mode it the one which is most confusing and I had a hard time
> figuring out what the "standard" algrithum for implenting it was. The way
> the 3 series works is it tests for "both paddles closed" at the end of
> a dot
> or dash element. i.e., at the start of the inter-element space.
>
> I have since learned that proper B mode is ANY time both paddles are
> closed,
> add the extra element to the end of the string. So, that is the way the
> keyer in the -4 works and any future rigs.
>
> Personally, I find B mode a little too touchy no matter how it's
> implemented
> and much perfer A mode.
>

> Steve
>
> > This is likely the same issue the I encountered with the Iambic B
> timing
> > being too tight in the ATS3A. I bet he is an Iambic B user. I have the
> > most problem with sending "R" s.
> > One of these days I need to re-flash my ATS-3B with Mike's fix.
> >
>
>

8105. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-19 23:45:26 UTC
From: Yannick
Topic: 8036 Message: 8105

Hi,

Great design choices overall.
If under 100 USD you can count me in for one without hesitation.

73,
Yan - XV4V.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> The LED digit is retained but there is no volume control as before. There
> simply isn't room for either a mechanical or digital one. Audio level will
> be limited to about 800 mV peak to peak, which is reasonably loud without
> being deafening. Those with poor hearing can increase that to 1.2V peak to
> peak and those with very good hearing can add an in-line volume control to
> thier headphones.
>
> Steve
>
> > Did the LED digit make the cut?
> >
> > Is there going to be any kind of volume control, even if it is software
> > controlled?
> >
>

8106. Re: Any other ATS II Kits or completed rigs available?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 00:21:01 UTC
From: Tim W4YN
Topic: 8059 Message: 8106

I went scrounging and found 2 ATS III kits.
One built with 40M module in Fossil Watch box with parts for the other 3 bands. I also have 1 unbuilt ATS III in package. SRY could not find another II. There is a spare ATS IIIB somewhere in shack but I have not located. Also 1 original ATS but that is not for sale.
Tim W4YN

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
> Shucky durn, I didn't speak up quickly enough on the latest offering for
> an AT-Sprint Version II.
>
> I'm still looking for an ATS II either built or kit. I have the orginal
> version, and a ATS-3b, so the ATS II would fill out the series. Please
> contact me direct if anyone has one which they'd be willing to sell.
>
> 72/73 de n8xx Hg
>

8107. Voltage Monitor on the ATS-4?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 02:09:17 UTC
From: brianpepperdine
Topic: 8107 Message: 8107

Sorry, but I read the ATS-4 via PDF keyword search and don't see very much at all re. what seems to be voltage monitor on the lower right of the LCD display (which I recently noticed is back-lit.. cool.. didn't see that before... is that controllable to save battery... or so low consumption is does not matter?)

The displayed voltage:
is it the INPUT voltage at the connector
or
is it the voltage after the initial regulation?

What is see is lower than what my external voltage meter sees at my DC connector on the end of the cable coming from the my variable voltage supply set at 9 VDC. My variable supply has a fairly accurate meter of its output level.

So to run at 9 vdc to 'be nice' to the finals... should I run it at 9 V from the supply or can I up the supply a bit so the ATS shows 9 volts?

Also, the ATS display does not seem to alter much if I lower or raise the supply voltage? What is the delta of time the ATS-4 uses for the monitor display update? If I turn it off and then back on it does see the changed voltage at that changed off/on state.
Tnx....

8108. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 02:43:42 UTC
From: Steven Carr
Topic: 8036 Message: 8108

ok...it has been a few years since I looked into this, but after
inserting foot into mouth the 2nd time ;-) I realized I don't have the
clearing of the latches right in my keyer timing description.
darn...more research needed!

On 01/19/2012 06:40 PM, Steven Carr wrote:
>
>
> I'd also read the "add extra element..." description, but it never sat
> well with me. It always seemed like a description by someone who had
> used a keyer but wasn't concerned with technical implementation
> details, and it never helped me determine how the keyer timing was
> supposed to be. I decided that the "extra element" is not
> intentionally added, it is merely an inherent function of input latching.
>
> Earlier today I described my thinking on Iambic B (when it comes time
> to key out the next element, latched paddle inputs are checked and a
> dit or dah keyed out depending on the latched paddle inputs. the start
> of keying out the new element clears the input latches.). Then I saw
> W1MT Mike's comments about latching at 50%, which reminded me of an
> old discrete logic design I had examined.
>
> The discrete logic design acted just as I previously described, except
> that instead of clearing the input latches at the beginning of the
> next element as I did, the discrete logic design waited a half clock
> cycle (1 clk = 1 dit) to clear the input latches. waiting that half
> clock cycle creates a window where a paddle input might not be
> detected so I saw that delay as a deviation from the ideal timing
> easily achieved with software, however the delay also removed the
> potential of a race condition therefore was probably a good compromise
> in simplifying the discrete logic design.
>
> Fortunately this is all software/firmware, making it less urgent than
> laying down copper so Steve need not worry about it for a couple months.
>
> Steve (ae4yq)
>
>
> On 01/19/2012 02:27 PM, Steven Weber wrote:
>
>> Yes, the B mode it the one which is most confusing and I had a hard time
>> figuring out what the "standard" algrithum for implenting it was. The
>> way
>> the 3 series works is it tests for "both paddles closed" at the end
>> of a dot

>> or dash element. i.e., at the start of the inter-element space.
>>
>> I have since learned that proper B mode is ANY time both paddles are
>> closed,
>> add the extra element to the end of the string. So, that is the way the
>> keyer in the -4 works and any future rigs.
>>
>> Personally, I find B mode a little too touchy no matter how it's
>> implemented
>> and much perfer A mode.
>>
>> Steve
>>
>> > This is likely the same issue the I encountered with the Iambic B
>> timing
>> > being too tight in the ATS3A. I bet he is an Iambic B user. I have the
>> > most problem with sending "R" s.
>> > One of these days I need to re-flash my ATS-3B with Mike's fix.
>> >
>>
>
>

8109. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 14:21:49 UTC
From: ve3wmb
Topic: 8036 Message: 8109

Yes unfortunately for "us poor souls" who learned Iambic B, unlearning it is like trying to teach pigs to fly ;-)

My first keyer was a Heathkit HD-1410 that I got back in 1980.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Yes, the B mode it the one which is most confusing and I had a hard time
> figuring out what the "standard" algrithum for implenting it was. The way
> the 3 series works is it tests for "both paddles closed" at the end of a dot
> or dash element. i.e., at the start of the inter-element space.
>
> I have since learned that proper B mode is ANY time both paddles are closed,
> add the extra element to the end of the string. So, that is the way the
> keyer in the -4 works and any future rigs.
>
> Personally, I find B mode a little too touchy no matter how it's implemented
> and much perfer A mode.
>
> Steve
>
>
> > This is likely the same issue the I encountered with the Iambic B timing
> > being too tight in the ATS3A. I bet he is an Iambic B user. I have the
> > most problem with sending "R" s.
> > One of these days I need to re-flash my ATS-3B with Mike's fix.
> >
>

8110. Re: ATS-3B mode B frustration

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 14:45:10 UTC
From: Fred Maas
Topic: 8110 Message: 8110

from Steve's description of how he programmed it, the operator needs to linger on the dit contact longer to get it to take. Apparently I DO that already, because I have no problem with it. It is going to impact any letter with an inserted dit, or a trailing single dit such as an "R" will become an "A" if the op doesn't linger on the paddle long enough.

I bet the op will have less trouble at higher speeds!!! That may be another less than intuitive solution to sending with it. Try it.

73, fred - kt5x

Yes unfortunately for "us poor souls" who learned Iambic B, unlearning it is like trying to teach pigs to fly ;-)

My first keyer was a Heathkit HD-1410 that I got back in 1980.

Michael VE3WMB

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8111. Re: ATS-3B mode B frustration

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 15:42:21 UTC
From: Gil WA5YKK
Topic: 8110 Message: 8111

Somehow, I'll be forever glad that I never got into the electronic keying idea, had been trained on that "wild hoss" of a J-38, & then started in on a Vibroplex paddle, so I'm a mechanical keying type. Guess that's a good way to stay until I have time to figure out all the problem children in electronic keying. A couple of kind souls gave me electronic keys "many moons ago", only problem being that I got no instruction booklets with them, or knew that they needed batteries! Might be a good thing, they're "button and shiny little transistor" technology, probably only good for a museum.
One had "cracking and dying of age" plastic paddle parts, thus I learned that quality control is too often not a paid position with the older companies.

Can anyone give me a hint about a really good electronic keyer? I think I have them built into the gear in my stock now, but lighting them up will be the trick. (Is this worth the time to pursue?)

73's
Gil WA5YKK

from Steve's description of how he programmed it, the operator needs to linger on the dit contact longer to get it to take. Apparently I DO that already, because I have no problem with it. It is going to impact any letter with an inserted dit, or a trailing single dit such as an "R" will become an "A" if the op doesn't linger on the paddle long enough. I bet the op will have less trouble at higher speeds!!! That may be another less than intuitive solution to sending with it. Try it.
73, fred - kt5x
Yes unfortunately for "us poor souls" who learned Iambic B, unlearning it is like trying to teach pigs to fly ;-)

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8112. Re: ATS-3B mode B frustration

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 16:14:14 UTC
From: Fred Maas
Topic: 8110 Message: 8112

I can go back and forth between keyer, bug and straight key. If I can, so can others with a little practice.

A bug is swung from the elbow, a straight key from the wrist, and a paddle with the finger tips with almost no motion of the arm at all. If you purposefully choose to learn motions that don't conflict, then you can easily have them all at once. Many who originally learned a bug will swing at paddles, too, but there is no vibrating spring to activate so there is no need to do that.

A keyer I like is from Jackson Harbour kits. His Island keyer will do three modes including the Ultimatic. with 56 memories, you may not need to actually send ;-)

http://wb9kzy.com/ham.htm

http://wb9kzy.com/ik2.htm

73 FD - kt5x

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8113. RE: [AT_Sprint] Re: ATS-3B mode B frustration

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 16:31:55 UTC
From: Ken Lotts
Topic: 8110 Message: 8113

Performance wise, the absolute best keyer I have _ever_ used is a kit from K1EL. (just google K1EL)

The one that I am referring to is the K42 which is a bit overkill for paddle keying since it includes keyboard abilities. It is truly awesome with all the params you can dial into it and it is extremely immune to high power RF (a big problem for keyboards). I use it for both paddle and keyboard sending.. (mostly paddle). Once you get this keyer dialed in to the way you like to send, it is flat out awesome. It has a rotary shaft encoder (not a pot) for dialing up and down your speed and the display shows the speed when you make a change. Your paddle sending is displayed on the screen as you send. The only down side is that it exclusively uses the keyboard for making parameter changes.. but I can live with that since there are so many params that you can quickly adjust.. It even has a hardened PTT line that you can use to key an amp.

http://farm7.staticflickr.com/6104/6338613300_e989eeee16_b.jpg

The other one that was my favorite before I got the K42 is the Idiom Press CMOS4 Keyer.

<http://www.idiompress.com/cmos4.html> http://www.idiompress.com/cmos4.html

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Gil WA5YKK
Sent: Friday, January 20, 2012 8:42 AM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: ATS-3B mode B frustration

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8114. Re: [AT_Sprint] Re: ATS-3B mode B frustration

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 16:58:24 UTC
From: Michael Harnage
Topic: 8110 Message: 8114

I have not used the K42 but have used the K11 and K12 chips and kits. K1EL stuff is highly recommended from this shack.

-mike

>_____
>
>
>Performance wise, the absolute best keyer I have _ever_ used is a kit from K1EL. (just google K1EL)
>
>

8115. Re: ATS-3B mode B frustration

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 17:24:45 UTC
From: Bart Lawson
Topic: 8110 Message: 8115

Gil,

You have received lots of info on electronic keyers and I believe that any of the suggestions would work out well for you.

Chuck Adams has a iambic tutor on his web site. I would suggest that anyone making the switch to paddles from a straight key take a look at this tutorial. He teaches the squeeze method. If you follow his method you will love using a electronic keyed and a good set of paddles. Also mode B is the only way to go, if you are using the squeeze method. Those that slap the paddles around would probably be better off with a single lever paddle that is very heavy!

Here is the direct link to Chuck's tutorial: http://www.morsecode.nl/iambic.PDF

Good luck!

cu es 72, Bart W0IIT
Pittsburg, KS

8116. Re: ATS-3B mode B frustration

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 17:30:58 UTC
From: k6jf_radio
Topic: 8110 Message: 8116

And I thought all this time my American Morse DCP paddle was flacky and that it was the problem! Good to know this information even if not much can be done for it other than using another keyer.

Jim K6JF

8117. Re: [AT_Sprint] Voltage Monitor on the ATS-4?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 17:39:06 UTC
From: Steven Weber
Topic: 8107 Message: 8117

The backlight is dimly lit all the time. It's not noticable until it gets dark and is set to be just bright enough that you don't have to shine a light on the display to read it in dim ambiant light.

The battery voltage is measured after the input diode and on switch, so reads about .3 or .4V lower than the actual input voltage. This only applies to the -4. Rev A and B versions have a correction added to make the voltage read closer to the actual input voltage.

The orginal -4 units also have a minor bug which caused the timer used to periodically update the battery voltage (and the auto shut off timer) not to start. (there's always something). However, the battery voltage is updated after any function which writes to the bottom line of the display is used.

Steve KD1JV

> Sorry, but I read the ATS-4 via PDF keyword search and don't see very much
> at all re. what seems to be voltage monitor on the lower right of the LCD
> display (which I recently noticed is back-lit.. cool.. didn't see that
> before... is that controllable to save battery... or so low consumption is
> does not matter?)
>
> The displayed voltage:
> is it the INPUT voltage at the connector
> or
> is it the voltage after the initial regulation?
>
> What is see is lower than what my external voltage meter sees at my DC
> connector on the end of the cable coming from the my variable voltage
> supply set at 9 VDC. My variable supply has a fairly accurate meter of its
> output level.
>
> So to run at 9 vdc to 'be nice' to the finals... should I run it at 9 V
> from the supply or can I up the supply a bit so the ATS shows 9 volts?
>
> Also, the ATS display does not seem to alter much if I lower or raise the
> supply voltage? What is the delta of time the ATS-4 uses for the monitor
> display update? If I turn it off and then back on it does see the changed
> voltage at that changed off/on state.
> Tnx....
>
>
>
>
> ---
>

> Yahoo! Groups Links
>
>
>

8118. Re: [AT_Sprint] Re: ATS-3B mode B frustration

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 17:31:26 UTC
From: jaevans@pcisys.net
Topic: 8110 Message: 8118

And on the other hand - http://www.morsex.com/pubs/iambicmyth.pdf

...
> Chuck Adams has a iambic tutor on his web site. I would suggest that anyone making the switch to paddles from a straight key take a look at this tutorial. He teaches the squeeze method. If you follow his method you will love using a electronic keyed and a good set of paddles. Also mode B is the only way to go, if you are using the squeeze method. Those that slap the paddles around would probably be better off with a single lever paddle that is very heavy!
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cu es 72, Bart W0IIT
Pittsburg, KS

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

8119. Re: Voltage Monitor on the ATS-4?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 18:53:36 UTC
From: r_zerr
Topic: 8107 Message: 8119

On mine, the voltage displayed coincides with what is at the input, at least as measured by my Fluke DVM.

I measured the current at receive as 45ma on my rig. I thought the same thing about maybe conserving energy by turning the backlight off. At 45ma, I could not justify the effort...I bet Steve came to the same conclusion.

The voltage appears to update only after a few seconds pass. I did nto check how many. If you change the input voltage, power down and then up again, it should show correct, but by my estimates based on tinkering, just wait.

-Ron, WT5RZ

--- In AT_Sprint@yahoogroups.com, "brianpepperdine" <brianpepperdine@...> wrote:
>
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> Tnx....
>

8120. Iambic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 18:58:19 UTC
From: Stephen Wandling
Topic: 8120 Message: 8120

Question: Am I the only guy out here who's slapping dual lever paddles around like they were single lever?

Until quite recently I thought I-AM-BIC might be the first words spoken by a ball point pen.

60 years ago I started pounding on a J-38. After a 50 year break I was re-licensed and bought another J-38. But I was hounded: "Try paddles!" "You'll love them". So I bought a plastic Hi-Mound dual lever for cheap at a hamfest and screwed it down next to the J-38.

I am so so so glad I didn't know what iambic meant when I began the steep learning curve for using the paddle. Otherwise, I would probably still only be using the J-38 today.

The Hi-Mound and J-38 are still right where I put them, but I have the American Morse DCP and my favourite Dennis Foster's Micro, all apparently capable of talking like a ball point pen, but don't.

BTW, I got the Micro (I believe I have the last one that Dennis, KK5PY, ever sold) because Steve, WG0AT, had one for his ATS3 and I even put mine in a wine cork like Steve's. But, even Steve calls this key a Te-Ne-Ke, as do lots of other folks. While the technology looks to be quite similar, the Te-Ne-Key is the product of Boyd, NE8KE, and is maybe twice the size of Dennis's Micro. Do I have this correct?

72
Stephen
VE7NSD

8121. Re: [AT_Sprint] Iambic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 18:59:21 UTC
From: Chris Fowler
Topic: 8120 Message: 8121

On Fri, 2012-01-20 at 10:58 -0800, Stephen Wandling wrote:
> Question: Am I the only guy out here who's slapping dual lever paddles
> around like they were single lever?

No. I do the same.

73,
Chris k4fh.

8122. Re: Voltage Monitor on the ATS-4?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 19:00:29 UTC
From: Fred Maas
Topic: 8107 Message: 8122

The battery voltage is measured after the input diode and on switch, so reads about .3 or .4V lower than the actual input voltage. This only applies to the -4. Rev A and B versions have a correction added to make the voltage read closer to the actual input voltage.

Steve KD1JV

Steve,

My particular ATS4-rev B reads high rather than low. And it isn't consistent. It reads .3 to .5 volts high for my LiPO's and bench supply.

Is the added "correction" a component the value of which might be adjusted to close in on actual???

tnx, Fred - kt5x

8123. Re: [AT_Sprint] Iambic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 19:00:30 UTC
From: jaevans@pcisys.net
Topic: 8120 Message: 8123

Me, too, with a Micro Te-Ne-Key

72 - john - n0hj

> On Fri, 2012-01-20 at 10:58 -0800, Stephen Wandling wrote:
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http://www.endymion.com/products/mailman/

8124. Re: [AT_Sprint] Iambic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 19:10:18 UTC
From: Stephen Wandling
Topic: 8120 Message: 8124

Hi John,

I presume that you saw my questioning about "Micro" and "Te-Ne-Key"?
It's my understanding, from communicating with Dennis Foster, KK5PY,
that he wasn't connected with Boyd Mason, NE8KE. Boyd apparently holds
the patent to the Te-Ne-Key. Unfortunately, Dennis' business was wiped
out in a fire.

Since you use the combined term for your paddle, maybe you have some
information that I don't? As a retired project manager I still have
problems with an unresolved question. :-)

Thanks,
72
Stephen
VE7NSD

On 20/01/2012 11:00 AM, jaevans@... wrote:
> Me, too, with a Micro Te-Ne-Key
>
> 72 - john - n0hj
>
>
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> Yahoo! Groups Links
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8125. Re: [AT_Sprint] Re: ATS-3B mode B frustration

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 19:18:55 UTC
From: Lee Hiers
Topic: 8110 Message: 8125

On Fri, Jan 20, 2012 at 12:31 PM, <jaevans@...> wrote:

> And on the other hand - http://www.morsex.com/pubs/iambicmyth.pdf
>

He sure seems to sell a lot of iambic keyers for someone so opposed to it!

All I know is that I started on a straight key, went to a bug, then an iambic keyer. Iambic suits me just fine - I'm not into high-speed Morse and the iambic method is much more comfortable for me up to 35 - 40 wpm or so compared to single-lever. And I rarely send that fast - usually 25-ish or so.

I guess that's why they continue to make all types of keyers and paddles.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

8126. Re: [AT_Sprint] Re: ATS-3B mode B frustration

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 19:43:21 UTC
From: Steven Carr
Topic: 8110 Message: 8126

more useful is being able to switch between right hand and left...that way you can key and log with different hands. I never could learn to write with my left hand, but keying with the left isn't so bad. (a trick is to turn the paddle around so that dits are still on the thumb)

On 01/20/2012 11:14 AM, Fred Maas wrote:
>
> I can go back and forth between keyer, bug and straight key. If I
> can, so can others with a little practice.
> A bug is swung from the elbow, a straight key from the wrist, and a
> paddle with the finger tips with almost no motion of the arm at all.
> If you purposefully choose to learn motions that don't conflict, then
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> 73 FD - kt5x
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> > > being too tight in the ATS3A. I bet he is an Iambic B user. I
> have the
> > > most problem with sending "R" s.
> > > One of these days I need to re-flash my ATS-3B with Mike's fix.
>
>

8127. Re: [AT_Sprint] Re: Voltage Monitor on the ATS-4?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 20:03:21 UTC
From: Steven Weber
Topic: 8107 Message: 8127

There are too many variables to produce a really accurate reading without a means of calibration. First there is the 5% resistor in the voltage divider, then there is the 2% tolerance of the 3.3V supply used as the A/D voltage reference, a little bit of error is introduced converting the binary A/D result into a scaled decimal reading and finally, the actual voltage drop across in the input diode and switch will vary with temperature and current.

My 4B reads dead on at 9V and 0.1V low at 12V.

So, the idea wasn't to provide a really accurate voltage reading, just accurate enough to give you a good idea of where what condition your battery is in.

Yes, there is a variable you can tweak in the source code to more closely match the actual supply votlage located on line 1954 < dadd #060h,r7 > where the hex number #060h is the variable.

Steve
My particular ATS4-rev B reads high rather than low. And it isn't consistent. It reads .3 to .5 volts high for my LiPO's and bench supply.

Is the added "correction" a component the value of which might be adjusted to close in on actual???

8128. Accu-keyer timing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 22:31:31 UTC
From: Steven Carr
Topic: 8110 Message: 8128

that need to linger is probably why I had problems with the 3b
timing...I'd either linger too long or not long enough.

I've given up on trying to remember how I implemented my keyer those
many years ago...so I found a discrete logic keyer circuit to analyze.

At the following link is a schematic for a Accu-keyer. I have entered it
into the ktechlab circuit simulator freely available on ubuntu (anyone
who cares to play with it can ask me offline for my circuit file).

http://vk1od.net/module/EA78Accukeyer/

The inputs are latched such that once a paddle contact is made it does
not have to be held any longer. However once an element (a dit or dah)
is started, the corresponding input latch is effectively held in reset
for the duration of that element and its trailing space. When it is time
for the next element to be sent, the previous element's input latch is
masked if the opposite element's latched input is active to allow
opposite element priority.

So...at any time while one element or its trailing space is active, a
momentary input (however brief) on the opposite element will be queued
and sent immediately after the current element and trailing space are
done. Also...the input for the current element and trailing space may be
held until the instant just prior to the end of that trailing space and
that element won't be repeated.

The same website has a small keyer IC (see following link) which appears
to use the same algorithm in software as the Accu-keyer does in hardware.

http://vk1od.net/module/pik/pik.htm

Steve (ae4yq)

On 01/20/2012 09:45 AM, Fred Maas wrote:
>
> from Steve's description of how he programmed it, the operator needs
> to linger on the dit contact longer to get it to take. Apparently I
> DO that already, because I have no problem with it. It is going to
> impact any letter with an inserted dit, or a trailing single dit such
> as an "R" will become an "A" if the op doesn't linger on the paddle
> long enough.
> I bet the op will have less trouble at higher speeds!!! That may be
> another less than intuitive solution to sending with it. Try it.
> 73, fred - kt5x
>
> Yes unfortunately for "us poor souls" who learned Iambic B, unlearning

> it is like trying to teach pigs to fly ;-)
>
> My first keyer was a Heathkit HD-1410 that I got back in 1980.
>
> Michael VE3WMB
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint@yahoogroups.com>,
> "Steven Weber" <steve.kd1jv@...> wrote:
> >
> > Yes, the B mode it the one which is most confusing and I had a hard
> time
> > figuring out what the "standard" algrithum for implenting it was.
> The way
> > the 3 series works is it tests for "both paddles closed" at the end
> of a dot
> > or dash element. i.e., at the start of the inter-element space.
> >
> > I have since learned that proper B mode is ANY time both paddles are
> closed,
> > add the extra element to the end of the string. So, that is the way the
> > keyer in the -4 works and any future rigs.
> >
> > Personally, I find B mode a little too touchy no matter how it's
> implemented
> > and much perfer A mode.
> >
> > Steve
> >
> >
> > > This is likely the same issue the I encountered with the Iambic B
> timing
> > > being too tight in the ATS3A. I bet he is an Iambic B user. I have
> the
> > > most problem with sending "R" s.
> > > One of these days I need to re-flash my ATS-3B with Mike's fix.
> > >
> >
>
>

8129. ATS3 History

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 22:36:56 UTC
From: Mike
Topic: 8129 Message: 8129

Howdy,

I've had my ats3 for a long time - can't recall exactly when I built it. Recently a couple of people have asked me whether it's an ATS3A or B and I've answered that, as far as I know, it's just a plain old ATS3.

Can someone tell me the history here? Was there originally an ATS3 (no rev) followed by A and B models? Or is the original ATS3 the same as an ATS3A?

73,

Mike - ke5akl

8130. Re: [AT_Sprint] ATS3 History

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 22:40:15 UTC
From: Michael Harnage
Topic: 8129 Message: 8130

http://groups.yahoo.com/group/AT_Sprint/message/2427

Can someone tell me the history here? Was there originally an ATS3 (no rev) followed by A and B models? Or is the original ATS3 the same as an ATS3A?
>
>

8131. Re: [AT_Sprint] ATS3 History

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 22:46:05 UTC
From: Charles Nolin
Topic: 8129 Message: 8131

Hello,

I happen to have one of the very first ones in my collection of Sprint radios. I had a few issues,
but it worked well.....

Chuck Nolin
WA6LTV/4

From: Michael Harnage <w1mt@...>
To: "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
Sent: Friday, January 20, 2012 5:40 PM
Subject: Re: [AT_Sprint] ATS3 History

http://groups.yahoo.com/group/AT_Sprint/message/2427

Can someone tell me the history here? Was there originally an ATS3 (no rev) followed by A and B models? Or is the original ATS3 the same as an ATS3A?
>
>

8132. Re: ATS3 History

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 22:54:02 UTC
From: Mike
Topic: 8129 Message: 8132

Thanks! So I guess I was right. It's just a plain old ATS3.

73,

Mike

--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:
>
> http://groups.yahoo.com/group/AT_Sprint/message/2427
>
>
>
> Can someone tell me the history here? Was there originally an ATS3 (no rev) followed by A and B models? Or is the original ATS3 the same as an ATS3A?
> >
> >
>

8133. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-20 23:33:57 UTC
From: Mike
Topic: 8036 Message: 8133

Steve.

The keyer in my ATS3 used to give me fits. I'm an iambic B guy but when I toggled to the B mode I'd always get extra dits - As turning to Rs, etc. To be honest, I found the B mode unusable. With A mode I'd tend to drop elements, As turning to Ts, etc. Since my call has an A in it, this could get really frustrating. It's quite embarrassing when you can't send your own call right... :-)

For awhile I actually gave up on paddles with the ATS3 and used one of those little Russian straight keys with it. The big drawback with that was no direct frequency entry. And with the ATS3 there's no way to get around this since the power-up auto key detect means that the only way to switch between paddles and straight key is to cycle power.

After some practice and adjustment I got to where I could send passably in the A mode, but still with more errors than usual. I found this interesting since, with other keyers I find the A mode unusable.

At some point I taught myself how to send with a single lever paddle. With this kind of sending it doesn't matter what iambic mode you're in since both contacts are never closed at the same time. This turned out to be the answer for me with the ATS3. I just treat the paddles like a single lever key and all goes fairly well.

73,

Mike - ke5akl

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> I have never been satisfied with the keyer on the ATS3. I just cannot use it without frequent errors.
>
> I don't understand this. Can you expand on what the frequent errors are and what seems to cause them?
>
> I have found the rigs don't like dirty key contacts, maybe due to the low voltage/current the ports work at.
>
> Steve
>

8134. RE: [AT_Sprint] Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-21 00:41:18 UTC
From: Ken Lotts
Topic: 8036 Message: 8134

Haha! Yes I have no idea .. I never chose mode B in the early days but I guess that must have been what stuff was set up as... I started out on the classic bencher combo and then used elecraft built in keyers for a long time... I guess that is when "it" happened. Haha!

8135. Re: MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-21 03:54:06 UTC
From: radio_kx0r
Topic: 8062 Message: 8135

Steve,

I like the idea of the two-band rig - although 20-30-40M would be a lot better. I use these three bands often when portable, sometimes in the same session.

When there are contests, it's so nice to go to 30M and escape the crowds. There are usually interesting QSO's and QRP people there.

Another idea is to make the rig capable of several bands, with removable modules, but make space for just 2, and be able to choose between them with switches. That way we could set the rig up for what we want to do. In the winter 80M is really useful.

My ATS-3B worked 28 states with 44 Q's on 80M in the NAQP this past weekend, in about 1-1/2 hours, with an end-fed wire 140 feet long at 30 feet, while camping in a tent in the snow in the mountains. 40M went long, and everyone moved down to 80. It also performed well on 20M earlier, in the late afternoon. Fantastic piece of gear !!

The other thing I'd want to see in a new rig is a knob for frequency tuning. This would vastly improve the agility and utility of the rig.
If there's not room for an encoder and knob, maybe put a jack in the rig so we can plug in a knob tuning device. Steve, you could sell it as an add-on accessory for $$$ like Elecraft does with their added features.

I would order a dedicated single band, dual band, or whatever ATS rig that covered 12 and 10M if it were available, just because the idea of working DX from mountain tops and wilderness sites appeals to me - even though it would only be useful for a few years. With a 17 foot dipole you could work all over the world. Portable beams are very possible on 10M....

My dreams - thankful for fun times with ATS3A and B!

KX0R
George Carey Fuller

--- In AT_Sprint@yahoogroups.com, "Fred Maas" <just.one.hill@...> wrote:
>
> More Morse. Less filling.
>
> FD - kt5x
>
>
> I second that! It sounds like a great addition to the AT family. A 2 band kit (20M & 40M) in an Altoids tin for around $100.00 or less sounds perfect!
>
>
>
> Anthony W6GC

> --- In AT_Sprint@yahoogroups.com, mbhayden <mbhayden@> wrote:
> >
> > it sounds great. please make a lot of them! i will definitely get one.
> >
> > mike AK3F
>

8136. Last reminder re submitting logs for the Pet Rock Sprint!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-21 14:28:14 UTC
From: James Rodenkirch
Topic: 7828 Message: 8136

Last reminder to submit your log(s) for the QRP ARCI Pet Rock event: Entries must be received via e-mail; if submitting via snail mail, your entry must be postmarked on or before
22 January, 2012 (and send me an e-mail to let me know that you are submitting via snail mail).

So far, we have 22 entries with Phil, K0CD and Don, W2JEK, leading the pack as far as entries for xtal controlled rigs are concerned! Phil and Don have posted scores that will be

difficult to best IF you don't turn in your logs - besides, participation numbers are what "works" when it comes time to decided which contests will be "supported" in 2013.

A reminder that the Winter Fireside Sprint is coming up - 2000Z to 2359Z on 29 January 2012. Mode of operating is SSB - I believe I have microphone around here somewhere!

The "usual rules," apply with standard bonus points available if you opt to operate portable. I'll be sorta tuckered out from operating in the CQ WW 160 contest over that weekend

BUT intend on working as many of you as possible during the Fireside Sprint - a new and very colorful certificate is available so check the various categories to see which category

might suit you and your station - get on the air with QRP SSB - it's all fun! Check this contest out, rules and all, at www.qrparci.org

72, Jim Rodenkirch, K9JW

QRP ARCI Contest Manager

8137. Re: ATS-3C or maybe MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-22 04:19:52 UTC
From: erehm
Topic: 8036 Message: 8137

Count me in for an ATS-3C / MTR kit. I like MTR but a place name woul be elegant too.

/eric
kj7ae

8138. ATS4 working but...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-22 18:15:42 UTC
From: Bob Flye
Topic: 8138 Message: 8138

Greetings all,
My ATS-4b was finished last night and with one exception works fine. I am getting 45 mA on receive, at either 9 or 12 volts. On transmit, I am getting 630-660 mA, from 80 meters to 20 meters, at 5 watts.
The only exception is 15 meters, I am getting 511 mA and 3 watts out, and that is at 12 volts. Any suggestions would be appreciated!
72/73
Bob, AD7BP

"You are boldly going where no man knows what he is doing" -Maarten Schmidt, Palomar astronomer-

8139. Re: ATS4 working but...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-22 18:53:49 UTC
From: Bob Flye
Topic: 8138 Message: 8139

OK,
Replying to my own message. Chatted with another friend who has an ATS-4. I was skeptical that I could get that big a change with compressing windings. I compressed L20 windings and the transmit current went up from 511 to 650 mA, and I am now just above 4 watts. The current is right in the ballpark with all the other bands. I think I am going to stop now before I do something dumb. Any comments are still welcome.
72/73
Bob, AD7BP

"You are boldly going where no man knows what he is doing" -Maarten Schmidt, Palomar astronomer-

--- On Sun, 1/22/12, Bob Flye <swlandham@...> wrote:

> From: Bob Flye <swlandham@...>
> Subject: ATS4 working but...
> To: AT_Sprint@yahoogroups.com
> Date: Sunday, January 22, 2012, 6:15 PM
> Greetings all,
> My ATS-4b was finished last night and with one exception
> works fine. I am getting 45 mA on receive, at
> either 9 or 12 volts. On transmit, I am getting
> 630-660 mA, from 80 meters to 20 meters, at 5 watts.
> The only exception is 15 meters, I am getting 511 mA and 3
> watts out, and that is at 12 volts. Any suggestions
> would be appreciated!
> 72/73
> Bob, AD7BP
>
> "You are boldly going where no man knows what he is
> doing" -Maarten Schmidt, Palomar astronomer-
>

8140. Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-22 20:48:47 UTC
From: Steven
Topic: 8140 Message: 8140

I've been looking into the Iambic keying issue and decided the best way to find out the proper way for it to work would be to go back to the source which set the standard. That would be the Curtis 8044ABM chip. Google quickly found the original application note written by John Curtis himself. This is what it has to say about A and B modes:

For example, (iambic A mode) if you squeeze the key paddles, leading slightly with the thumb (dot paddle), you can easily produce the Morse "period", "di dah di dah di dah". Some other characters produced by releasing the squeeze earlier, are the "AR" (di dah di dah dit) or the "AA" (di dah di dah), the "R" (di dah dit) or the "A" (di dah). By starting the squeeze with a dash, we can produce characters like "N", "K" and "C".
By squeezing during a letter, we can make other characters like "L", "Q" and so forth. Squeeze keying is fast and easy since it minimizes finger and wrist motion.

Type "B" iambic

The procedure described above is typical of what we call iambic type "A" or the original Curtis method. In type "B" iambic, a squeeze released during an element (dot or dash) will cause another alternate element to follow the one being produced.

For example, it you squeeze to produce a "period", then you must release during the third dit (or the space following). The last dah will automatically transmit. For another example, to make a "C", you must release during the second dah (or the space following) and the last dit will automatically transmit. Presumably, this further reduces the effort to produce some letters. But at high speeds, the necessity to release during the (very short) dit period may be difficult. The window for action on the "B" type is one-half that on the "A" type.

Okay, now we know how B mode is suppost to work. A squeeze released during an element will produce an opposite trailing element.

Therefore, in B mode, to send an A or N by squeezing both paddles requires releasing the paddles as soon as the first element starts sending. In order to avoid sending a K or R instead, you need to be really quick, so one should avoid squeeze keying for making A's or N's.

Both my keyer and the keyer in the Ten-Tec Argo V work as above, as does a K1EL keyer I have. However, the K1EL keyer seems to have slightly different timing. The paddles have to be squeezed farther into the dot or dash before they are released to get the alternate element to send then my keyer or the Ten-Tec does. I can see how that can help avoid

mistakes at the higher speeds.

Okay, one last issue. A vs B. On closer inspection, it turns out there is basically no difference between A and B modes in my implementation. They are both B mode. I said I look for both paddles closed at any time to set the extra element flag, but that is not the case. It is only tested at the end of an element being sent. This condition is already effectively tested for during the sending of an element by looking to see if the other paddle is close and if it is, setting a flag to produce that element. Checking again for both paddles closed at the end of sending an element is redunent and is the only difference between A and B modes in my implementation. I always thought B mode was more difficult to code for, but it looks like A mode is more tricky.

I'll tweak the timing on setting the flag for opposite element generation for squeeze keying and see if that helps and try to see if I can do a proper A implentation which doesn't result in dropping elements instead.

Steve KD1JV

8141. part # for ATS-3b.1 80m rf choke (LF4)?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 02:07:08 UTC
From: mdpowell1977
Topic: 8141 Message: 8141

Does anybody know a part number and source I could use to obtain this choke, which I believe is 18 uH?

The closest I can find on Digikey is 1-1623942-0, which is a non-stock part with minimum order of 1000.

The 80-meter is my last board, and the part seems to have got lost when my basement workbench got moved around during home improvement projects. :(

Thanks,

--mdp

8142. Re: [AT_Sprint] part # for ATS-3b.1 80m rf choke (LF4)?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 03:28:17 UTC
From: Steven Weber
Topic: 8141 Message: 8142

You could ask the source - I happen to have spares of that part.

Steve KD1JV

> Does anybody know a part number and source I could use to obtain this
> choke, which I believe is 18 uH?
>
> The closest I can find on Digikey is 1-1623942-0, which is a non-stock
> part with minimum order of 1000.
>
> The 80-meter is my last board, and the part seems to have got lost when my
> basement workbench got moved around during home improvement projects. :(

8143. Re: MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 14:53:42 UTC
From: ve3wmb
Topic: 8062 Message: 8143

There is one big advantage to not having knobs on a small portable rig ...

In bad weather (rain/snow etc) you can use a resealable plastic sandwich or smallish freezer bag with the bottom corners snipped off to keep the rig and battery dry.
You just route all of the cables in through the snipped corners. Once everything is connected up to the rig, slip it and the battery into the bag and seal it. Its not 100% waterproof but it sure goes a long way towards keeping things dry. If you have ever tried rotating a tuning knob on a rig while it is inside a plastic bag you will appreciate the button interface on the ATS rigs.

Michael VE3WMB / VA2NB

--- In AT_Sprint@yahoogroups.com, "radio_kx0r" <careyfuller@...> wrote:
>
>>> SNIP >>>>>>>

> The other thing I'd want to see in a new rig is a knob for frequency tuning. This would vastly improve the agility and utility of the rig.
> If there's not room for an encoder and knob, maybe put a jack in the rig so we can plug in a knob tuning device. Steve, you could sell it as an add-on accessory for $$$ like Elecraft does with their added features.

>>> SNIP >>>>

> KX0R
> George Carey Fuller

8144. Re: [AT_Sprint] Re: MTR (mountian top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 14:59:37 UTC
From: Chris Fowler
Topic: 8062 Message: 8144

On Mon, 2012-01-23 at 14:53 +0000, ve3wmb wrote:
> There is one big advantage to not having knobs on a small portable rig ...
>
> In bad weather (rain/snow etc) you can use a resealable plastic sandwich or smallish
> freezer bag with the bottom corners snipped off to keep the rig and battery dry.
> You just route all of the cables in through the snipped corners. Once everything is connected up to the rig, slip it and the battery into the bag and seal it. Its not 100% waterproof but it sure goes a long way towards keeping things dry. If you have ever tried rotating a tuning knob on a rig while it is inside a plastic bag you will appreciate the button interface on the ATS rigs.
>
> Michael VE3WMB / VA2NB

You can also buy waterproof bags off eBay.

Chris k4fh

8145. Re: [AT_Sprint] Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 15:07:04 UTC
From: Steven Carr
Topic: 8140 Message: 8145

Steve,

John Curtis wrote an application note (see link) regarding his 8044ABM design.

http://users.ox.ac.uk/~malcolm/radio/8044screen.pdf

His document mentions dot memory and dash memory. Do you have that, or are you just polling at the end of an element? (And did you literally mean that you poll at the end of the element, or do you actually poll at the end of the element's trailing space?)

Steve (ae4yq)

On 01/22/2012 03:48 PM, Steven wrote:
>
> I've been looking into the Iambic keying issue and decided the best
> way to find out the proper way for it to work would be to go back to
> the source which set the standard. That would be the Curtis 8044ABM
> chip. Google quickly found the original application note written by
> John Curtis himself. This is what it has to say about A and B modes:
>
> For example,/(iambic A mode)/ if you squeeze the key paddles, leading
> slightly with the thumb (dot paddle), you can easily produce the Morse
> "period", "di dah di dah di dah". Some other characters produced by
> releasing the squeeze earlier, are the "AR" (di dah di dah dit) or the
> "AA" (di dah di dah), the "R" (di dah dit) or the "A" (di dah). By
> starting the squeeze with a dash, we can produce characters like "N",
> "K" and "C". By squeezing during a letter, we can make other
> characters like "L", "Q" and so forth. Squeeze keying is fast and easy
> since it minimizes finger and wrist motion.
>
> *
>
> Type "B" iambic
>
> *
>
> The procedure described above is typical of what we call iambic type
> "A" or the original Curtis method. In type "B" iambic, *_a squeeze
> _**_/released during /an element (dot or dash) will cause another
> /alternate /_**_element to follow the one being produced._*
>
> For example, it you squeeze to produce a "period", then you must
> release during the third dit (or the space following). The last dah
> will automatically transmit. For another example, to make a "C", you

> must release during the second dah (or the space following) and the
> last dit will automatically transmit. Presumably, this further reduces
> the effort to produce some letters. But at high speeds, the necessity
> to release during the (very short) dit period may be difficult. The
> window for action on the "B" type is one-half that on the "A" type.
>
> Okay, now we know how B mode is suppost to work. A squeeze released
> during an element will produce an opposite trailing element.
>
> Therefore, in B mode, to send an A or N by squeezing both paddles
> requires releasing the paddles as soon as the first element starts
> sending. In order to avoid sending a K or R instead, you need to be
> really quick, so one should avoid squeeze keying for making A's or N's.
>
> Both my keyer and the keyer in the Ten-Tec Argo V work as above, as
> does a K1EL keyer I have. However, the K1EL keyer seems to have
> slightly different timing. The paddles have to be squeezed farther
> into the dot or dash before they are released to get the alternate
> element to send then my keyer or the Ten-Tec does. I can see how that
> can help avoid mistakes at the higher speeds.
>
> Okay, one last issue. A vs B. On closer inspection, it turns out there
> is basically no difference between A and B modes in my implementation.
> They are both B mode. I said I look for both paddles closed at any
> time to set the extra element flag, but that is not the case. It is
> only tested at the end of an element being sent. This condition is
> already effectively tested for during the sending of an element by
> looking to see if the other paddle is close and if it is, setting a
> flag to produce that element. Checking again for both paddles closed
> at the end of sending an element is redunent and is the only
> difference between A and B modes in my implementation. I always
> thought B mode was more difficult to code for, but it looks like A
> mode is more tricky.
>
> I'll tweak the timing on setting the flag for opposite element
> generation for squeeze keying and see if that helps and try to see if
> I can do a proper A implentation which doesn't result in dropping
> elements instead.
>
> Steve KD1JV
>
>

8146. Re: [AT_Sprint] Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 18:24:10 UTC
From: Steven Weber
Topic: 8140 Message: 8146

Yes, that is the document I found and quoted from.

I do dot and dash memory sensing during the sending of an element. This memory is what enables B mode to work. I find doing memory sensing during an element space to really make for garbled sending, especially at the higher speeds. Ideally, I should be using level change interupts (high to low) for doing the paddle memories, because polling can't tell if the key just closed or has been closed. But at least with the 4B, the paddle ports don't support pin change interupts.

I've been fiddling with the keyer routine and I belive I have A mode working as it should, and B mode less prone to adding an extra element when not wanted. If anything, I've always had problems dropping dits and that is really apparent now in A mode if a dot is to trail a dash as the final element. The paddles have to be held closed until the final element you want starts to send and once used to B mode, that is difficult.

I'll play with this another day or two, then post the new routine for those who built a programming cable and want to try it out.

Steve KD1JV

John Curtis wrote an application note (see link) regarding his 8044ABM design.

http://users.ox.ac.uk/~malcolm/radio/8044screen.pdf

His document mentions dot memory and dash memory. Do you have that, or are you just polling at the end of an element? (And did you literally mean that you poll at the end of the element, or do you actually poll at the end of the element's trailing space?)

8147. ATS-3B finals choices and mods

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 18:31:52 UTC
From: tlcfarmer@yahoo.com
Topic: 8147 Message: 8147

I now have a set of 3 2N7000's and another set of 3 BS170's that I can choose to put in my ATS-3B that I recently got working after fixing the pcb. During the removal of the previous finals, I may have damaged the solder pads, so I really only want to do this once. Which of these 2 transistor sets would rather have in your ATS-3B? Did you add any kind of heatsink? (I have seen the picture KX0R's setup). Did you put heatsink compound on the transistors?

Lincoln
N9IN

8148. Re: Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 19:08:05 UTC
From: Vojtech
Topic: 8140 Message: 8148

Hi Steve and others.

I took my time to play with K1EL keyer running at extremely slow speeds and tried to mimic it in my ATS-3b firmware. I had to look into the source code and here is the pseudo code how my keyer behaves:

1)
No paddle closed. Wait for dot or dash paddle contact to be closed.
When closed, start the symbol.

2)
At the beginning of a symbol:
Clear the latch of an opposite paddle.
Wait 1/3 (or 1/2 of a dot length, or nothing, based on user preference). Don't latch the opposite paddle in this interval.
2a)
Wait the rest of the symbol length including the symbol space and latch the opposite paddle:
if Iambic A -> Latch on falling edge of the opposite paddle.
if Iambic B -> Latch on low level of the opposite paddle.

3)
At the end of symbol space:
If an opposite symbol was latched -> Send the opposite symbol, go to 2)
Otherwise if both paddles are closed:
if ultimatic mode ->
if ultimatic with priority -> Start the symbol with higher priority (either always dot, or always dash)
else Start the same symbol
else Start the opposite symbol
else if dot paddle is closed -> Start dot symbol
else if dash paddle is closed -> Start dash symbol

4)
At the end of symbol space, if not Autospace mode, then go to 1), otherwise:

Wait for the letter space interval and check for dot or dash paddle contact to be closed.
When closed, mark which paddle was closed.
Wait the rest of the letter space and latch the opposite paddle:
if Iambic A -> Latch on falling edge of the opposite paddle.
if Iambic B -> Latch on low level of the opposite paddle.
Start the symbol for which the first paddle was closed.
Go to 2a)

That's all.

The main difference between Iambic A and B is that A latches on falling edge, while B latches on low level.

I believe the main difference between the correctly implemented keyers is whether there is the guard interval between 2) and 2a), where the opposite paddle is not latched. K1EL has the delay configurable and is set to 1/2 of a dot interval by default. Me based on Mike's code I have set it to 1/3 of a dot interval. I believe the delay lowers number of errors, but it is a personal taste and I bet if one learns to send without the delay, it will be confusing to him.

Hope it helps to make the topic clearer. Let me know if I was not clear enough.

73, Vojtech OK1IAK

8149. Re: Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 19:14:42 UTC
From: Vojtech
Topic: 8140 Message: 8149

Hi Steve and others.

Once more, this time with correct formating.

I took my time to play with K1EL keyer running at extremely slow speeds
and tried to mimic it in my ATS-3b firmware. I had to look into the
source code and here is the pseudo code how my keyer behaves:

```
1)
No paddle closed. Wait for dot or dash paddle contact to be closed.
When closed, start the symbol.

2)
At the beginning of a symbol:
Clear the latch of an opposite paddle.
Wait 1/3 (or 1/2 of a dot length, or nothing, based on user preference).
Don't latch the opposite paddle in this interval.
2a)
Wait the rest of the symbol length including the symbol space and latch
the opposite paddle:
if Iambic A -> Latch on falling edge of the opposite paddle.
if Iambic B -> Latch on low level of the opposite paddle.

3)
At the end of symbol space:
If an opposite symbol was latched -> Send the opposite symbol, go to 2)

Otherwise if both paddles are closed:
if ultimatic mode ->
if ultimatic with priority -> Start the symbol with
higher priority (either always dot, or always dash)
else Start the same symbol
else Start the opposite symbol
else if dot paddle is closed -> Start dot symbol
else if dash paddle is closed -> Start dash symbol

4)
At the end of symbol space, if not Autospace mode, then go to 1),
otherwise:

Wait for the letter space interval and check for dot or dash paddle
contact to be closed. When closed, mark which paddle was closed.
Wait the rest of the letter space and latch the opposite paddle:
if Iambic A -> Latch on falling edge of the opposite paddle.
if Iambic B -> Latch on low level of the opposite paddle.
Start the symbol for which the first paddle was closed.
Go to 2a)
```

That's all.

The main difference between Iambic A and B is that A latches on falling edge, while B latches on low level.

I believe the main difference between the correctly implemented keyers is whether there is the guard interval between 2) and 2a), where the opposite paddle is not latched. K1EL has the delay configurable and is set to 1/2 of a dot interval by default. Me based on Mike's code I have set it to 1/3 of a dot interval. I believe the delay lowers number of errors, but it is a personal taste and I bet if one learns to send without the delay, it will be confusing to him.

Hope it helps to make the topic clearer. Let me know if I was not clear enough.

73, Vojtech OK1IAK

8150. New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 19:17:32 UTC
From: AT_Sprint@yahoogroups.com
Topic: 154 Message: 8150

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the AT_Sprint
group.

File : /OK1IAK/iambic-keyer.txt
Uploaded by : bubnikv <bubnikv@...>
Description : How the keyer in my alternate ATS-3b firmware works

You can access this file at the URL:
http://groups.yahoo.com/group/AT_Sprint/files/OK1IAK/iambic-keyer.txt

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

bubnikv <bubnikv@...>

8151. Re: Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 19:19:43 UTC
From: Vojtech
Topic: 8140 Message: 8151

The yahoogroups online editor screwed up the formating, which is important when writing a pseudo-program. I posted the description into the files section, OK1IAK group.
Vojtech

8152. Re: [AT_Sprint] Re: Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 19:31:52 UTC
From: Steven Carr
Topic: 8140 Message: 8152

I particularly liked the following statement in the John Curtis application note:

"At first glance, a keyer doesn't appear too complicated."

On 01/23/2012 02:14 PM, Vojtech wrote:
>
> Hi Steve and others.
>
> Once more, this time with correct formating.
>
> I took my time to play with K1EL keyer running at extremely slow speeds
> and tried to mimic it in my ATS-3b firmware. I had to look into the
> source code and here is the pseudo code how my keyer behaves:
>
> 1)
> No paddle closed. Wait for dot or dash paddle contact to be closed.
> When closed, start the symbol.
>
> 2)
> At the beginning of a symbol:
> Clear the latch of an opposite paddle.
> Wait 1/3 (or 1/2 of a dot length, or nothing, based on user preference).
> Don't latch the opposite paddle in this interval.
> 2a)
> Wait the rest of the symbol length including the symbol space and latch
> the opposite paddle:
> if Iambic A -> Latch on falling edge of the opposite paddle.
> if Iambic B -> Latch on low level of the opposite paddle.
>
> 3)
> At the end of symbol space:
> If an opposite symbol was latched -> Send the opposite symbol, go to 2)
>
> Otherwise if both paddles are closed:
> if ultimatic mode ->
> if ultimatic with priority -> Start the symbol with
> higher priority (either always dot, or always dash)
> else Start the same symbol
> else Start the opposite symbol
> else if dot paddle is closed -> Start dot symbol
> else if dash paddle is closed -> Start dash symbol
>
> 4)
> At the end of symbol space, if not Autospace mode, then go to 1),

> otherwise:
>
> Wait for the letter space interval and check for dot or dash paddle
> contact to be closed. When closed, mark which paddle was closed.
> Wait the rest of the letter space and latch the opposite paddle:
> if Iambic A -> Latch on falling edge of the opposite paddle.
> if Iambic B -> Latch on low level of the opposite paddle.
> Start the symbol for which the first paddle was closed.
> Go to 2a)
>
> That's all.
>
> The main difference between Iambic A and B is that A latches on falling
> edge, while B latches on low level.
>
> I believe the main difference between the correctly implemented keyers
> is whether there is the guard interval between 2) and 2a), where the
> opposite paddle is not latched. K1EL has the delay configurable and is
> set to 1/2 of a dot interval by default. Me based on Mike's code I have
> set it to 1/3 of a dot interval. I believe the delay lowers number of
> errors, but it is a personal taste and I bet if one learns to send
> without the delay, it will be confusing to him.
>
> Hope it helps to make the topic clearer. Let me know if I was not clear
> enough.
>
> 73, Vojtech OK1IAK
>
>

8153. Re: ATS4 working but...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 20:49:57 UTC
From: PaulG
Topic: 8138 Message: 8153

--- In AT_Sprint@yahoogroups.com, Bob Flye <swlandham@...> wrote:
>
> OK,
> Replying to my own message. Chatted with another friend who has an ATS-4. I was skeptical that I could get that big a change with compressing windings. I compressed L20 windings and the transmit current went up from 511 to 650 mA, and I am now just above 4 watts. The current is right in the ballpark with all the other bands. I think I am going to stop now before I do something dumb. Any comments are still welcome.
> 72/73
> Bob, AD7BP
>
> "You are boldly going where no man knows what he is doing" -Maarten Schmidt, Palomar astronomer-
>

Congratulations on getting it working Bob! Nice job.
Mine has about 4 and a half watts more or less on all the bands. I would button it up.
You did well by being careful too. I almost always make some mistakes it seems.
What setting did you use on the Hakko solder station ? Mine worked after I reheated two joints but I could not really tell they were faulty by inspection. Probably my inexperience with SMD QC inspection.
Paul K3PG

8154. Re: [AT_Sprint] ATS-3B finals choices and mods

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 21:23:03 UTC
From: Stephen Wandling
Topic: 8147 Message: 8154

Lincoln,

True to my form, when building my ATS3-B, I installed the 3 2N7000s before noting Steve's recommendation of bending them over to contact the PCB, for the purpose of heatsinking. I haven't had any problems with them.

It's my understanding that the BS170s are much more high current tolerant than the 2N7000s, and I believe that allowed Steve to remove the high current protection circuit from some later models of his rigs? I don't know if the ATS3-B circuit can accept the BS170s without other modifications. Steve can tell you this.

72 Stephen VE7NSD

On 23/01/2012 10:31 AM, tlcfarmer@... wrote:
> I now have a set of 3 2N7000's and another set of 3 BS170's that I can choose to put in my ATS-3B that I recently got working after fixing the pcb. During the removal of the previous finals, I may have damaged the solder pads, so I really only want to do this once. Which of these 2 transistor sets would rather have in your ATS-3B? Did you add any kind of heatsink? (I have seen the picture KX0R's setup). Did you put heatsink compound on the transistors?
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> Lincoln
> N9IN
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> Yahoo! Groups Links
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8155. ATS4 (b) Low audio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 21:35:06 UTC
From: paradoxpete.pdm@gmail.com
Topic: 8155 Message: 8155

Is there anyway to get a bit more audio gain out of the ATS4.
My hearing's not what it used to be, but when using the ATS4 I always have the volume fully wound up. It's actually a totally redundant control at the moment! The signals are in there, but without a little external audio amp I struggle to hear them! I know that when I come to use this outdoors, wind noise will drown out any audio unless I also carry an external audio amp. I've tried various ear buds/phones but there's not much between them.

Pete
G4ISJ

8156. Re: [AT_Sprint] ATS4 (b) Low audio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 22:00:08 UTC
From: Stephen Wandling
Topic: 8155 Message: 8156

Hi Pete,

I have the ATS3-B and not the ATS4, but it seems to me that folks were finding the audio volume of the ATS4 to be adequate? Can you do a check by having a friend listen and tell you if they also find the volume to be low? If they do, then you may have an issue with your ATS4 that's needs to be resolved.

72 Stephen VE7NSD
On 23/01/2012 1:35 PM, paradoxpete.pdm@... wrote:
> Is there anyway to get a bit more audio gain out of the ATS4.
> My hearing's not what it used to be, but when using the ATS4 I always have the volume fully wound up. It's actually a totally redundant control at the moment! The signals are in there, but without a little external audio amp I struggle to hear them! I know that when I come to use this outdoors, wind noise will drown out any audio unless I also carry an external audio amp. I've tried various ear buds/phones but there's not much between them.
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> Pete
> G4ISJ
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> Yahoo! Groups Links
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8157. Re: [AT_Sprint] ATS4 (b) Low audio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 22:23:22 UTC
From: K1jdjohn
Topic: 8155 Message: 8157

FYI... I have the same issue with the ATS4a.
73,
John K1JD

On Jan 23, 2012, at 5:00 PM, Stephen Wandling <swandling@...> wrote:

> Hi Pete,
>
> I have the ATS3-B and not the ATS4, but it seems to me that folks were
> finding the audio volume of the ATS4 to be adequate? Can you do a check
> by having a friend listen and tell you if they also find the volume to
> be low? If they do, then you may have an issue with your ATS4 that's
> needs to be resolved.
>
> 72 Stephen VE7NSD
> On 23/01/2012 1:35 PM, paradoxpete.pdm@... wrote:
> > Is there anyway to get a bit more audio gain out of the ATS4.
> > My hearing's not what it used to be, but when using the ATS4 I always have the volume fully wound up. It's actually a totally redundant control at the moment! The signals are in there, but without a little external audio amp I struggle to hear them! I know that when I come to use this outdoors, wind noise will drown out any audio unless I also carry an external audio amp. I've tried various ear buds/phones but there's not much between them.
> >
> > Pete
> > G4ISJ
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8158. Re: [AT_Sprint] ATS4 (b) Low audio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 22:24:20 UTC
From: Steven Weber
Topic: 8155 Message: 8158

> Is there anyway to get a bit more audio gain out of the ATS4.

The 4B has an AGC to limit the output amplitude to about 400 mV peak (0.8V p-p) That can be increased to 1.2V p-p by removing R46, located just above the '386 audio amp. Or you could remove C30 and eliminate all AGC action. I would remove R46 first, 1.2V p-p hurts my ears...

Steve

8159. Re: [AT_Sprint] ATS-3B finals choices and mods

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 22:28:15 UTC
From: Dale Putnam
Topic: 8147 Message: 8159

Steve's right on, the BS170s are better, and if they are optimized well, they can be driven with a 9v battery, at least during tuneup, and more often than not, during operating, for even less stress...and longer battery life. Yes, temp compound is good, very level top of transistor to case insures heat transfer too.
Have a great day,
Dale - WC7S

-----Original Message-----
From: Stephen Wandling <swandling@...>
Date: Mon, 23 Jan 2012 21:23:03
To: <AT_Sprint@yahoogroups.com>
Cc: <tlcfarmer@...>
Subject: Re: [AT_Sprint] ATS-3B finals choices and mods

Lincoln,

True to my form, when building my ATS3-B, I installed the 3 2N7000s
before noting Steve's recommendation of bending them over to contact the
PCB, for the purpose of heatsinking. I haven't had any problems with them.

It's my understanding that the BS170s are much more high current
tolerant than the 2N7000s, and I believe that allowed Steve to remove
the high current protection circuit from some later models of his rigs?
I don't know if the ATS3-B circuit can accept the BS170s without other
modifications. Steve can tell you this.

72 Stephen VE7NSD

On 23/01/2012 10:31 AM, tlcfarmer@... <mailto:tlcfarmer%40yahoo.com> wrote:
> I now have a set of 3 2N7000's and another set of 3 BS170's that I can choose to put in my ATS-3B that I recently got working after fixing the pcb. During the removal of the previous finals, I may have damaged the solder pads, so I really only want to do this once. Which of these 2 transistor sets would rather have in your ATS-3B? Did you add any kind of heatsink? (I have seen the picture KX0R's setup). Did you put heatsink compound on the transistors?
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> Lincoln
> N9IN
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8160. Re: ATS-3B finals choices and mods

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 23:20:01 UTC
From: tlcfarmer@yahoo.com
Topic: 8147 Message: 8160

Steve and Dale,

Thanks for the reply's

I will put the BS170's in. I will get some heatsink compound tomorrow and put some on each one when I bend them over. The drain and source are swapped on th BS170's so the rounded side goes towards the pcb. I was thinking about making a heatsink out of a section of some left over 1/2' copper pipe that I have. I'll look at the heatsink in KX0R's picture again.

Dale, what do you mean by 'optimized well'? I only got 3 and it takes all 3, so I am just going to get what I get, I think.

Again, thanks.

Lincoln
N9IN

--- In AT_Sprint@...m, "Dale Putnam " <daleputnam@...> wrote:
>
> Steve's right on, the BS170s are better, and if they are optimized well, they can be driven with a 9v battery, at least during tuneup, and more often than not, during operating, for even less stress...and longer battery life. Yes, temp compound is good, very level top of transistor to case insures heat transfer too.
> Have a great day,
> Dale - WC7S
>
> -----Original Message-----
> From: Stephen Wandling swandling@...
> Date: Mon, 23 Jan 2012 21:23:03
> To: AT_Sprint@yahoogroups.com
> Cc: tlcfarmer@...
> Subject: Re: [AT_Sprint] ATS-3B finals choices and mods
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>
> Lincoln,
>
> True to my form, when building my ATS3-B, I installed the 3 2N7000s
> before noting Steve's recommendation of bending them over to contact the
> PCB, for the purpose of heatsinking. I haven't had any problems with

them.
>
> It's my understanding that the BS170s are much more high current
> tolerant than the 2N7000s, and I believe that allowed Steve to remove
> the high current protection circuit from some later models of his
rigs?
> I don't know if the ATS3-B circuit can accept the BS170s without other
> modifications. Steve can tell you this.
>
> 72 Stephen VE7NSD
>
> On 23/01/2012 10:31 AM, tlcfarmer@... <mailto:tlcfarmer%40yahoo.com>
wrote:
> > I now have a set of 3 2N7000's and another set of 3 BS170's that I
can choose to put in my ATS-3B that I recently got working after fixing
the pcb. During the removal of the previous finals, I may have damaged
the solder pads, so I really only want to do this once. Which of these 2
transistor sets would rather have in your ATS-3B? Did you add any kind
of heatsink? (I have seen the picture KX0R's setup). Did you put
heatsink compound on the transistors?
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8161. Re: [AT_Sprint] Re: ATS-3B finals choices and mods

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-23 23:46:17 UTC
From: Dale Putnam
Topic: 8147 Message: 8161

Hi Lincoln,
What I mean by optimized is tuning the toroids for the max power vs minimum current used. With 5 plus watts out on each band, you can afford to trim back with the input voltage to attain 3.5 plus watts at 9v input.
Have a great day,
Dale - WC7S

-----Original Message-----
From: tlcfarmer@...
Date: Mon, 23 Jan 2012 23:20:01
To: <AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] Re: ATS-3B finals choices and mods

Steve and Dale,

Thanks for the reply's

I will put the BS170's in. I will get some heatsink compound tomorrow and put some on each one when I bend them over. The drain and source are swapped on th BS170's so the rounded side goes towards the pcb. I was thinking about making a heatsink out of a section of some left over 1/2' copper pipe that I have. I'll look at the heatsink in KX0R's picture again.

Dale, what do you mean by 'optimized well'? I only got 3 and it takes all 3, so I am just going to get what I get, I think.

Again, thanks.

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> , "Dale Putnam " <daleputnam@...> wrote:
>
> Steve's right on, the BS170s are better, and if they are optimized well, they can be driven with a 9v battery, at least during tuneup, and more often than not, during operating, for even less stress...and longer battery life. Yes, temp compound is good, very level top of transistor to case insures heat transfer too.
> Have a great day,
> Dale - WC7S
>
> -----Original Message-----
> From: Stephen Wandling swandling@...
> Date: Mon, 23 Jan 2012 21:23:03
> To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>

> Cc: tlcfarmer@...
> Subject: Re: [AT_Sprint] ATS-3B finals choices and mods
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>
> Lincoln,
>
> True to my form, when building my ATS3-B, I installed the 3 2N7000s
> before noting Steve's recommendation of bending them over to contact
the
> PCB, for the purpose of heatsinking. I haven't had any problems with
them.
>
> It's my understanding that the BS170s are much more high current
> tolerant than the 2N7000s, and I believe that allowed Steve to remove
> the high current protection circuit from some later models of his
rigs?
> I don't know if the ATS3-B circuit can accept the BS170s without other
> modifications. Steve can tell you this.
>
> 72 Stephen VE7NSD
>
> On 23/01/2012 10:31 AM, tlcfarmer@... <mailto:tlcfarmer%40yahoo.com>
wrote:
> > I now have a set of 3 2N7000's and another set of 3 BS170's that I
can choose to put in my ATS-3B that I recently got working after fixing
the pcb. During the removal of the previous finals, I may have damaged
the solder pads, so I really only want to do this once. Which of these 2
transistor sets would rather have in your ATS-3B? Did you add any kind
of heatsink? (I have seen the picture KX0R's setup). Did you put
heatsink compound on the transistors?
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> > N9IN
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8162. Hellllooooo Trevor Smith??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-24 01:44:35 UTC
From: Dale Putnam
Topic: 8162 Message: 8162

I'm looking for Trevor... anyone seen him, lately? Lost his email. Need to touch base with him.Thanks,
--... ...--
Dale - WC7S in Wy

8163. Re: [AT_Sprint] Hellllooooo Trevor Smith??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-24 02:05:47 UTC
From: Stephen Wandling
Topic: 8162 Message: 8163

Dale,

I punched Trevor Smith into QRZ and got a 16 hits. If you know what
call zone he's in or state, that would narrow it down.

72 Stephen VE7NSD
On 23/01/2012 5:44 PM, Dale Putnam wrote:
> I'm looking for Trevor... anyone seen him, lately? Lost his email. Need to touch base
with him.Thanks,
> --... ...--
> Dale - WC7S in Wy
>

8164. Re: [AT_Sprint] Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-24 03:14:56 UTC
From: WA0ITP
Topic: 8140 Message: 8164

Here's the other side of the Iambic issue. I don't do Iambic and don't want to try to learn it. I guess I can't break the mindset of the keyer doing something that I didn't tell it to do.

For those of us who just swat (albeit lightly) the paddles back and forth like we are using a single lever, it appears that just plain old self completing is all we need. I am more comfortable with A rather than B. Plus I like some dual paddle keys better than some single lever.(izzat ambivalence?)

How do other slappers get along with the A and B modes? Is anyone happier with one over the other? Or does it make any difference which mode is used? Am I the only one that doesnt use or like iambic modes?

Just wanting to see how other non-Iambic ops handle their paddles and keyers.

Thanx for listening.

Back to the bench, Winter's too valuable to waste.
I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Monday, January 23, 2012 12:24 PM
Subject: Re: [AT_Sprint] Iambic keying

Yes, that is the document I found and quoted from.

I do dot and dash memory sensing during the sending of an element. This memory is what enables B mode to work. I find doing memory sensing during an element space to really make for garbled sending, especially at the higher speeds. Ideally, I should be using level change interupts (high to low) for doing the paddle memories, because polling can't tell if the key just closed or has been closed. But at least with the 4B, the paddle ports don't support pin change interupts.

I've been fiddling with the keyer routine and I belive I have A mode working as it should, and B mode less prone to adding an extra element when not wanted. If anything, I've always had problems dropping dits and that is really apparent now in A mode if a dot is to trail a dash as the final element. The paddles have to be held closed until the final element you want starts to send and once used to B mode, that is difficult.

I'll play with this another day or two, then post the new routine for those who built a programming cable and want to try it out.

Steve KD1JV

John Curtis wrote an application note (see link) regarding his 8044ABM design.

http://users.ox.ac.uk/~malcolm/radio/8044screen.pdf

His document mentions dot memory and dash memory. Do you have that, or are you just polling at the end of an element? (And did you literally mean that you poll at the end of the element, or do you actually poll at the end of the element's trailing space?)

8165. RE: [AT_Sprint] Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-24 16:35:41 UTC
From: Don Hinds
Topic: 8140 Message: 8165

>> How do other slappers get along with the A and B modes?

My Kenwood TS-2000 only supports Iambic B, which is why I either use an external keyer, or a straight key. (Long live SKCC!!!)

73,
Don
WD4ON

8166. Re: [AT_Sprint] Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-24 16:54:29 UTC
From: Chris
Topic: 8140 Message: 8166

I always use Iambic Mode B. I tried mode A but never liked it. There is rather huge difference between A and B, and I tend to make too many errors with A.

Best 73,

Chris AD1AD

On Tue, Jan 24, 2012 at 11:35 AM, Don Hinds <don.hinds@...> wrote:

> **
>
>
> >> *How do other slappers get along with the A and B modes?*
>
> * *
>
> *My Kenwood TS-2000 only supports Iambic B, which is why I either use an
> external keyer, or a straight key. (Long live SKCC!!!)*****
>
> ** **
>
> 73,****
>
> Don****
>
> WD4ON****
>
>
>

--
The whole problem with the world is that fools and fanatics are always so certain of themselves, but wiser people so full of doubts.

8167. RE: [AT_Sprint] Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-24 17:00:15 UTC
From: Dale Putnam
Topic: 8140 Message: 8167

http://www.cwops.org/pdf/iambicmyth.pdf
provides another aspect of it
--... ...--
Dale - WC7S in Wy

--
The whole problem with the world is that fools and fanatics are always so certain of themselves, but wiser people so full of doubts.

8168. Re: [AT_Sprint] Hellllooooo Trevor Smith??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-24 20:59:10 UTC
From: AB5EU
Topic: 8162 Message: 8168

Hi Dale!
Here I am.....
Cheers Trevor

AB5EU@...

On 1/23/2012 8:05 PM, Stephen Wandling wrote:
>
> Dale,
>
> I punched Trevor Smith into QRZ and got a 16 hits. If you know what
> call zone he's in or state, that would narrow it down.
>
> 72 Stephen VE7NSD
> On 23/01/2012 5:44 PM, Dale Putnam wrote:
> > I'm looking for Trevor... anyone seen him, lately? Lost his email.
> Need to touch base with him.Thanks,
> > --... ...--
> > Dale - WC7S in Wy
> >
>
>

8169. Re: ATS4 (b) Low audio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-24 22:59:16 UTC
From: paradoxpete.pdm@gmail.com
Topic: 8155 Message: 8169

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
> The 4B has an AGC to limit the output amplitude to about 400 mV peak (0.8V
> p-p) That can be increased to 1.2V p-p by removing R46, located just above
> the '386 audio amp. Or you could remove C30 and eliminate all AGC action. I
> would remove R46 first, 1.2V p-p hurts my ears...

Thanks Steve, I'll remove R46 and see what difference it makes. Funnily, when I looked at the manual to see where R46 is, I notice that in all the photos it appears to be 1 Meg not the the 220K specified, except for the little picture on page 23 where it's missing completely!
I take it you've played around a bit with this one?

73
Pete
G4ISJ

8170. Re: [AT_Sprint] Re: ATS4 (b) Low audio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-25 01:05:49 UTC
From: Steven Weber
Topic: 8155 Message: 8170

> Thanks Steve, I'll remove R46 and see what difference it makes. Funnily,
> when I looked at the manual to see where R46 is, I notice that in all the
> photos it appears to be 1 Meg not the the 220K specified, except for the
> little picture on page 23 where it's missing completely!
> I take it you've played around a bit with this one?
>

I didn't have a 220K resistor on hand when I built up the board and took the
pictures - simple as that.
Steve

8171. Topic shift, please?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-25 06:54:10 UTC
From: Gil WA5YKK
Topic: 8140 Message: 8171

OMs;

I've been in a never ending search for a simple answer to a simple problem, the control cable connections to the Hy-GAIN AR-40 rotator. For reasons unknown, neither my little manual on my rotator or anything on the Internet site has a diagram or any hint on what wire, what color, goes to any given screw on the input of the rotator itself.
If anyone has any idea, kindly let me know, email direct, it's easier to tap into the Pentagon than to get answers out of Hy-Gain!

Thanks for the bandwidth, I'm lost.

73's
Gil WA5YKK

8172. Schematic vs. assembly instruction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-25 16:19:39 UTC
From: w1dry
Topic: 8172 Message: 8172

Hi all,

Please ignore this message if it has already been identified.

Spotted a disparity between the part id for L9/L10 and the schematic.
The schematic shows a 3.3 uH inductor and the assembly on page 15 shows 3.9 uH. I presume the value is 3.9 uH as this is what is provided in the kit. Does the schematic need to change on the assembly docs?

Cheers,

Mike
W1DRY

8173. Re: [AT_Sprint] Schematic vs. assembly instruction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-25 17:59:00 UTC
From: Steven Weber
Topic: 8172 Message: 8173

Please ignore any thing the schematic says if it conficts with the assembly info. The schematic is the last thing to get updated with a minor change and sometimes not at all.

3.3 uH were at one time used. Then when I went to get more, they were out of stock, but there were pleanty of 3.9's to be had. It's a lot easier to change 3.3 to 3.9 in the text of the instructions then it is to revise the schematic, even had I remembered it had to be done.

> Please ignore this message if it has already been identified.
>
> Spotted a disparity between the part id for L9/L10 and the schematic.
> The schematic shows a 3.3 uH inductor and the assembly on page 15 shows
> 3.9 uH. I presume the value is 3.9 uH as this is what is provided in the
> kit. Does the schematic need to change on the assembly docs?
>

8174. Re: Topic shift, please?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 01:39:19 UTC
From: PaulG
Topic: 8140 Message: 8174

Gil see if this helps any.

It is a five wire and I would try using the numbers on the control box (shown in the manual) and then assume that the rotor is numbered 1-5 Left to Right if it has 5 screws on it.

I have only used AR-22's and Ham M types (8 wire) so I do not know for sure.

Paul K3PG
http://pgerhardt.blogspot.com

[PDF]
INSTRUCTION MANUAL - Thiecom
www.thiecom.de/pdf/AR-40.pdf
File Format: PDF/Adobe Acrobat - Quick View
AR-40 / AR-40X. Antenna Rotator. INSTRUCTION MANUAL. General. Pre-Installation Check and Calibration. The Hy-Gain AR-40 antenna rotator is designed ...

--- In AT_Sprint@yahoogroups.com, Gil WA5YKK <WA5YKK@...> wrote:
>
> OMs;
>
> I've been in a never ending search for a simple answer to a simple
> problem, the control cable connections to the Hy-GAIN AR-40 rotator. For
> reasons unknown, neither my little manual on my rotator or anything on
> the Internet site has a diagram or any hint on what wire, what color,
> goes to any given screw on the input of the rotator itself.
> If anyone has any idea, kindly let me know, email direct, it's easier
> to tap into the Pentagon than to get answers out of Hy-Gain!
>
> Thanks for the bandwidth, I'm lost.
>
> 73's
> Gil WA5YKK
>

8175. Re: [AT_Sprint] Re: Topic shift, please?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 01:58:28 UTC
From: Dan Babcock
Topic: 8140 Message: 8175

Gil,

There really is no good answer to your question. The proper wiring of the controller is totally dependent on the way the rotor was wired. There are some conventions on which color wire is used for what functionality. However, there is no way to know exactly how the rotator was wired unless you actually check out the rotator connections.

73,

Dan N4XWE

From: PaulG <pgerhardt@hotmail.com>
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, January 25, 2012 6:39 PM
Subject: [AT_Sprint] Re: Topic shift, please?

Gil see if this helps any.

It is a five wire and I would try using the numbers on the control box (shown in the manual) and then assume that the rotor is numbered 1-5 Left to Right if it has 5 screws on it.

I have only used AR-22's and Ham M types (8 wire) so I do not know for sure.

Paul K3PG
http://pgerhardt.blogspot.com

[PDF]
INSTRUCTION MANUAL - Thiecom
www.thiecom.de/pdf/AR-40.pdf
File Format: PDF/Adobe Acrobat - Quick View
AR-40 / AR-40X. Antenna Rotator. INSTRUCTION MANUAL. General. Pre-Installation Check and Calibration. The Hy-Gain AR-40 antenna rotator is designed ...

--- In AT_Sprint@yahoogroups.com, Gil WA5YKK <WA5YKK@...> wrote:
>
> OMs;
>
> I've been in a never ending search for a simple answer to a simple
> problem, the control cable connections to the Hy-GAIN AR-40 rotator. For
> reasons unknown, neither my little manual on my rotator or anything on
> the Internet site has a diagram or any hint on what wire, what color,
> goes to any given screw on the input of the rotator itself.
> If anyone has any idea, kindly let me know, email direct, it's easier
> to tap into the Pentagon than to get answers out of Hy-Gain!
>

> Thanks for the bandwidth, I'm lost.
>
> 73's
> Gil WA5YKK
>

8176. Re: [AT_Sprint] Topic shift, please?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 02:17:15 UTC
From: Stephen Wandling
Topic: 8140 Message: 8176

On page one of the manual it says "Connect terminal 1 to terminal 1, etc." That's how I would wire it.

http://www.thiecom.de/pdf/AR-40.pdf

72 Stephen VE7NSD

On 24/01/2012 10:54 PM, Gil WA5YKK wrote:
> OMs;
>
> I've been in a never ending search for a simple answer to a simple
> problem, the control cable connections to the Hy-GAIN AR-40 rotator. For
> reasons unknown, neither my little manual on my rotator or anything on
> the Internet site has a diagram or any hint on what wire, what color,
> goes to any given screw on the input of the rotator itself.
> If anyone has any idea, kindly let me know, email direct, it's easier
> to tap into the Pentagon than to get answers out of Hy-Gain!
>
> Thanks for the bandwidth, I'm lost.
>
> 73's
> Gil WA5YKK
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

8177. Re: [AT_Sprint] Re: Topic shift, please?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 02:18:19 UTC
From: Hank Greeb
Topic: 8140 Message: 8177

Why not give HyGain an call on the twisted pair and ask for technical service. If you don't have inexpensive long distance let me know and I'll give them a jingle tomorrow.

72/73 de n8xx Hg

8178. Re: [AT_Sprint] Re: Topic shift, please?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 03:19:04 UTC
From: Gil WA5YKK
Topic: 8140 Message: 8178

Hank, et all;

My extreme thanks to everyone who responded, I've had two URL references to a repair shop, got them printed out. Now, the activity on the rotator will depend on the weather (again), and my careful attention to detail as I do the hook up. The one OM at Hy Gain chimed in, too, with one problem, he didn't give me a color code to screw position readout, nice of him to be concerned. Got that from the repair shop website.
The one remaining item is to remove the bottom portion of the rotator and check for synthetic grease, I don't recall what I used when I went ahead to do that little change, learned about it the hard way when a past CDE "melted into junk" longish ago.

Many, many thanks for all the help, now the work begins.

Now, back to the ATS-2,3,4 - whichever of Rick's rigs makes this group smile! (My backlog is on my spare bed and my "kits" desk!)

73's, keep warm!

Gil WA5YKK

On 1/25/2012 8:18 PM, Hank Greeb wrote:
>
> Why not give HyGain an call on the twisted pair and ask for technical
> service. If you don't have inexpensive long distance let me know and
> I'll give them a jingle tomorrow.
>
> 72/73 de n8xx Hg
>
>

8179. When will available for sale ATS4b?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 09:07:50 UTC
From: Alex Ponomarenko
Topic: 8179 Message: 8179

GN!

I'm awaiting to order ATS4b.
Please inform about time when it will possible.
TNX!

--
73!
Alex UR5LAM

8180. Re: [AT_Sprint] When will available for sale ATS4b?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 16:57:16 UTC
From: Steven Weber
Topic: 8180 Message: 8180

> I'm awaiting to order ATS4b.
> Please inform about time when it will possible.
> TNX!

Not for a long time, maybe next year. A simpler, smaller and less expensive 2 band rig similer to the old ATS-3B should be available in a few months instead.

Steve KD1JV

8181. Re[2]: [AT_Sprint] When will available for sa le ATS4b?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 19:34:12 UTC
From: Alex Ponomarenko
Topic: 8180 Message: 8181

26 января 2012, 20:57 от "Steven Weber" <steve.kd1jv@gmail.com>:
> > I'm awaiting to order ATS4b.
> > Please inform about time when it will possible.
> > TNX!
>
> Not for a long time, maybe next year. A simpler, smaller and less expensive
> 2 band rig similer to the old ATS-3B should be available in a few months
> instead.
>

Steve, Give me link on this device, please.

UR5LAM

8182. Re: Re[2]: [AT_Sprint] When will available for sale ATS4b?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 19:38:28 UTC
From: Lee Hiers
Topic: 8180 Message: 8182

On Thu, Jan 26, 2012 at 2:34 PM, Alex Ponomarenko <ur5lam@...> wrote:

Steve, Give me link on this device, please.
>
There is no link for this radio yet - Steve is still designing it!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

8183. Re: Re[2]: [AT_Sprint] When will available for sale ATS4b?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 19:40:03 UTC
From: Michael Harnage
Topic: 8180 Message: 8183

Alex,

There is no link yet. It's still in the planning stages in Steve's head. His website at http://kd1jv.qrpradio.com will be the site when he's got something to share. Until then continue monitoring this forum for information. Might be interesting to search the archives as well.

Enjoy,
mike/w1mt

>_____
>
>
>Steve, Give me link on this device, please.
>
>

8184. Suggestions for ideas for a new rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 19:59:44 UTC
From: n8xxham
Topic: 8184 Message: 8184

I didn't see a suggestion for this idea, so it may be unique to me?

If so, mebbe it's of questionable value

Anyway, if there were a couple "guide pins" for the band modules for an AT-Sprint (any vintage) it would be a bit easier to change bands when out on the trail. Some times in inclement weather and/or evening with low light, changing bands is somewhat of a challenge.

Just a very, very minor suggestions, but if there's another 5 or 6 band version in the future, why not include guide pins?

72/73 de n8xx Hg

8185. Re[4]: [AT_Sprint] When will available for sa le ATS4b?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 19:54:51 UTC
From: Alex Ponomarenko
Topic: 8180 Message: 8185

In schematic ATS-4b I find a few elegant solutions.
I will wait for new interesting Radio with smallest sizes and powerful capabilities.
Thanks for the answers!

UR5LAM

26 января 2012, 23:40 от Michael Harnage <w1mt@yahoo.com>:
> Alex,
>
> There is no link yet. It's still in the planning stages in Steve's head. His website at http://kd1jv.qrpradio.com will be the site when he's got something to share. Until then continue monitoring this forum for information. Might be interesting to search the archives as well.
>
> Enjoy,
> mike/w1mt
>
> >_____
> >
> >
> >Steve, Give me link on this device, please.
> >
> >
>

8186. Re: [AT_Sprint] Suggestions for ideas for a new rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-26 20:43:45 UTC
From: Colin Tuckley
Topic: 8184 Message: 8186

On 26/01/12 19:59, n8xxham wrote:

> Anyway, if there were a couple "guide pins" for the band modules for an
> AT-Sprint (any vintage) it would be a bit easier to change bands when
> out on the trail. Some times in inclement weather and/or evening with
> low light, changing bands is somewhat of a challenge.
>
> Just a very, very minor suggestions, but if there's another 5 or 6 band
> version in the future, why not include guide pins?

I suspect the answer is very simple. *No space*! They would need space
on the board which is already used by components. Since they would be
through-hole they would take up space on *both* sides of the board too.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

Does fuzzy logic tickle?

8187. Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 02:54:44 UTC
From: Steven
Topic: 8187 Message: 8187

I ordered a TEG (thermal electric generator)yesterday which should prove interesting to play with. It claims to be able to produce up to 15 V at 1 A, or 15 watts and at 3" x 3" x 0.5" is reasonably small. However, what kind of delta T it takes to produce 15W is not specified, I'll have to figure that out on my own.

A TEG is made up of bimetalic semiconductor junctions wired in series/parallel. When placed between two metal plates (typcially aluminum), then heated on one side and cooled on the other, electricty is produced. These can also be use in reverse, putting current into them will cause one side to get cold and the other hot. This is known as the Peltier effect and is used for CPU cooling. However, I found out the coolers have all thier juncitons wired in parallel, so only produce a small voltage when used as a generator.

My plan is to use the TEG to charge Li-ion batteries during extended hiking trips. It's easier to arrange for fire at night then sun during the day! But there is something I want to try. For charging batteries, I will only need 5 V at a few hundred ma. Since that will have to be regulated, why not take the "wasted" power and put it back into the generator by mounting the regulator on the "hot" side of the TEG? In theory, over 10 watts can be pumped back into the TEG.

I'm wondering if this can effectively bootstap the process. Cold running water is typically available out in the wilderness. Put the cold side heatsink into the running water and electricity should be produced though maybe not a lot at first. If this is disapated directly into the hot side of the TEG by a power transistor, it should start to warm up, making a larger temperature differental, making more juice and so on until some equalibrium is reached. Shades of perpertual motion :-)

Another question is will there be enough surplus energy left over to do the charging? Yet other question is if the process has to be started by first heating up the hot side and if it would then remain self-substaining?

But if that doesn't work, plan B is to get a little backpackable wood stove and use that as the heat source. I'm looking at one made of titanium plates which lock together to make a box. Since this stove has flat sides, attaching the TEG to it would be simple.

The advantage of Plan A is that if it works it could be left unattended all night to charge something. Plan B would require keeping a close eye on the wood stove, which goes through fuel quickly. Not a lot of fuel, but it burns up small sticks pretty fast.

In any event, this should prove to be interesting to try.

72, Steve KD1JV

8188. Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 07:19:36 UTC
From: Vojtech
Topic: 8187 Message: 8188

Hi Steve.

I looked into the possibilities of a thermoelectric pot some 7 years ago. I thought of using the Peltier cells in reverse and putting them on fire, but I gave on the idea when I found out that they are made of some kind of semiconductors (Tellur I believe) and soldered. I was afraid that the connections inside the Peltier cell will melt when put on fire and abused thermally. One shall make sure that they are cooled effectively, the best being connecting the other side to a pot filled with cold water by a thermal compound, I suppose. You bring the water to a boil, forget it, let it boil out and you destroy the cells. That does not sound like a solid solution to me.

The efficiency of the thermoelectric cells is about 4% if I remember, which is about one half of a solar cell.

> I ordered a TEG (thermal electric generator)yesterday which should prove interesting to play with. It claims to be able to produce up to 15 V at 1 A, or 15 watts and at 3" x 3" x 0.5" is reasonably small.

Would you give us a link to your source of the cell, please? I wonder whether they are able to withstand more thermal abuse than the Tellur Peltier cells.

I doubt that you will generate any reasonable energy by just cooling the other side with a cold water. Bootstrapping the cell by heating it with an electric current sounds like a perpetuum mobile idea. You need to keep a reasonable temperature gradient between the plates to generate some power. If you preheat the plates with electric current and then cool one side of it with cold pot, the temperature of the cell will equalize soon after you disconnect it from the current source. It will generate enough energy for sure if you put it on fire and don't burn it though.

Good luck, Vojtech

8189. Re: What to do next?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 07:47:24 UTC
From: Vojtech
Topic: 7962 Message: 8189

Steve,

I was going through about 2 years of this list and found a very good suggestion for a tuning mode by Ken AA7JC, which is trivial to implement:

> I am thinking that in reality, there are times when everyone resorts to a low power dead key as they struggle with difficult tuning situations in a field environment (and does a station ID at the end of course). The ATS3 even has a dead key tune position in its menu. There is no power adjustment so it is either full power or nothing.. given the choice of a full power dead key or a full power low duty cycle rapid pulse, I would choose the later every time (its easier on the finals and the battery). I would not eliminate the dead key feature, I would just add another choice..
>
> I have an MFJ device that does this at 75WPM, 13% duty cycle and I
find it to be wonderful.. That is why I would like to see this as an option in the ATS3X rigs..

There are just three buttons used in the tune mode. Key down, key up and escape. The fourth button could be used for the low duty cycle tune mode.

73, Vojtech OK1IAK

8190. Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 08:06:13 UTC
From: Vojtech
Topic: 8187 Message: 8190

> The advantage of Plan A is that if it works it could be left unattended all night to charge something. Plan B would require keeping a close eye on the wood stove, which goes through fuel quickly. Not a lot of fuel, but it burns up small sticks pretty fast.

By the way, I have made a great experience with a small electric fan intended to fire up the char coal grill. It is powered by a single AA cell. You make a little chamber out of three or four stones, fill it with sticks, fire it up and keep it burning with the fan. Such a stone stove burns hot even with a little bit of wood waste like cones. We even cooked on dry cow dung in Mongolia the way the locals do. I find the small fan to be easier to carry than a gas stove.

Vojtech OK1IAK

8191. Re: [AT_Sprint] Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 09:06:24 UTC
From: Milton A Riutort
Topic: 8187 Message: 8191

Steve:

This sound very good to experiment with. Not sure what kind of TEG, but if you need some titanium to do something yourself, you can try here http://www.knifekits.com/vcom/index.php?cPath=46_368 for some metal sheet.

By the way, I never been hiking, but those TEG, can produce some energy if use with the hot side close the body and cool side just expose to the ambient low temp, not sure if this is a good idea, but who knows.

73 de Milton
NP4KT

Sent from my iPhone

On Jan 26, 2012, at 10:54 PM, "Steven" <steve.kd1jv@...> wrote:

> I ordered a TEG (thermal electric generator)yesterday which should prove interesting to play with. It claims to be able to produce up to 15 V at 1 A, or 15 watts and at 3" x 3" x 0.5" is reasonably small. However, what kind of delta T it takes to produce 15W is not specified, I'll have to figure that out on my own.
>
> A TEG is made up of bimetalic semiconductor junctions wired in series/parallel. When placed between two metal plates (typcially aluminum), then heated on one side and cooled on the other, electricty is produced. These can also be use in reverse, putting current into them will cause one side to get cold and the other hot. This is known as the Peltier effect and is used for CPU cooling. However, I found out the coolers have all thier juncitons wired in parallel, so only produce a small voltage when used as a generator.
>
> My plan is to use the TEG to charge Li-ion batteries during extended hiking trips. It's easier to arrange for fire at night then sun during the day! But there is something I want to try. For charging batteries, I will only need 5 V at a few hundred ma. Since that will have to be regulated, why not take the "wasted" power and put it back into the generator by mounting the regulator on the "hot" side of the TEG? In theory, over 10 watts can be pumped back into the TEG.
>
> I'm wondering if this can effectively bootstap the process. Cold running water is typically available out in the wilderness. Put the cold side heatsink into the running water and electricity should be produced though maybe not a lot at first. If this is disapated directly into the hot side of the TEG by a power transistor, it should start to warm up, making a larger temperature differental, making more juice and so on until some equalibrium is reached. Shades of perpertual motion :-)
>
> Another question is will there be enough surplus energy left over to do the charging? Yet other question is if the process has to be started by first heating up the hot side and if it would then remain self-substaining?

>
> But if that doesn't work, plan B is to get a little backpackable wood stove and use that as the heat source. I'm looking at one made of titanium plates which lock together to make a box. Since this stove has flat sides, attaching the TEG to it would be simple.
>
> The advantage of Plan A is that if it works it could be left unattended all night to charge something. Plan B would require keeping a close eye on the wood stove, which goes through fuel quickly. Not a lot of fuel, but it burns up small sticks pretty fast.
>
> In any event, this should prove to be interesting to try.
>
> 72, Steve KD1JV
>
>

8192. Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 11:32:38 UTC
From: Tim W4YN
Topic: 8187 Message: 8192

A friend of mine has traveled all over world doing bio research,
He found these devices in Siberia and parts of Mongolia. They have been around for many years although probably not very high tech.
Seems to be in use in areas with no normal power available.
Tim
--- In AT_Sprint@yahoogroups.com, Milton A Riutort <milton.riutort@...> wrote:
>
> Steve:
>
> This sound very good to experiment with. Not sure what kind of TEG, but if you need some titanium to do something yourself, you can try here
http://www.knifekits.com/vcom/index.php?cPath=46_368 for some metal sheet.
>
> By the way, I never been hiking, but those TEG, can produce some energy if use with the hot side close the body and cool side just expose to the ambient low temp, not sure if this is a good idea, but who knows.
>
> 73 de Milton
> NP4KT
>
> Sent from my iPhone
>
> On Jan 26, 2012, at 10:54 PM, "Steven" <steve.kd1jv@...> wrote:
>
> > I ordered a TEG (thermal electric generator)yesterday which should prove interesting to play with. It claims to be able to produce up to 15 V at 1 A, or 15 watts and at 3" x 3" x 0.5" is reasonably small. However, what kind of delta T it takes to produce 15W is not specified, I'll have to figure that out on my own.
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> > A TEG is made up of bimetalic semiconductor junctions wired in series/parallel. When placed between two metal plates (typcially aluminum), then heated on one side and cooled on the other, electricty is produced. These can also be use in reverse, putting current into them will cause one side to get cold and the other hot. This is known as the Peltier effect and is used for CPU cooling. However, I found out the coolers have all thier juncitons wired in parallel, so only produce a small voltage when used as a generator.
> >
> > My plan is to use the TEG to charge Li-ion batteries during extended hiking trips. It's easier to arrange for fire at night then sun during the day! But there is something I want to try. For charging batteries, I will only need 5 V at a few hundred ma. Since that will have to be regulated, why not take the "wasted" power and put it back into the generator by mounting the regulator on the "hot" side of the TEG? In theory, over 10 watts can be pumped back into the TEG.
> >
> > I'm wondering if this can effectively bootstap the process. Cold running water is typically available out in the wilderness. Put the cold side heatsink into the running

water and electricity should be produced though maybe not a lot at first. If this is disapated directly into the hot side of the TEG by a power transistor, it should start to warm up, making a larger temperature differental, making more juice and so on until some equalibrium is reached. Shades of perpertual motion :-)
> >
> > Another question is will there be enough surplus energy left over to do the charging? Yet other question is if the process has to be started by first heating up the hot side and if it would then remain self-substaining?
> >
> > But if that doesn't work, plan B is to get a little backpackable wood stove and use that as the heat source. I'm looking at one made of titanium plates which lock together to make a box. Since this stove has flat sides, attaching the TEG to it would be simple.
> >
> > The advantage of Plan A is that if it works it could be left unattended all night to charge something. Plan B would require keeping a close eye on the wood stove, which goes through fuel quickly. Not a lot of fuel, but it burns up small sticks pretty fast.
> >
> > In any event, this should prove to be interesting to try.
> >
> > 72, Steve KD1JV
> >
> >
>

8193. Re: [AT_Sprint] Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 14:30:37 UTC
From: Steven Carr
Topic: 8187 Message: 8193

Steve,

regarding the surplus 10w idea...the TEG is not very efficient, so it would be better to step down the voltage and increase the current. this would have the benefit of reducing how much input heat you need.

Here's the backpacking wood stove I'd recommend (in titanium, but also available in stainless):

http://www.vargooutdoors.com/Hexagon-Backpacking-Wood-Stove

something to think about...to keep a fire going in a small stove you will need to use small fuel, so you won't be able to leave it unattended for long. also these stoves aren't really intended to run for long periods, so ash buildup may start limiting fresh air needed for the fire.

Steve (ae4yq)

On 01/26/2012 09:54 PM, Steven wrote:
>
> I ordered a TEG (thermal electric generator)yesterday which should
> prove interesting to play with. It claims to be able to produce up to
> 15 V at 1 A, or 15 watts and at 3" x 3" x 0.5" is reasonably small.
> However, what kind of delta T it takes to produce 15W is not
> specified, I'll have to figure that out on my own.
>
> A TEG is made up of bimetalic semiconductor junctions wired in
> series/parallel. When placed between two metal plates (typcially
> aluminum), then heated on one side and cooled on the other, electricty
> is produced. These can also be use in reverse, putting current into
> them will cause one side to get cold and the other hot. This is known
> as the Peltier effect and is used for CPU cooling. However, I found
> out the coolers have all thier juncitons wired in parallel, so only
> produce a small voltage when used as a generator.
>
> My plan is to use the TEG to charge Li-ion batteries during extended
> hiking trips. It's easier to arrange for fire at night then sun during
> the day! But there is something I want to try. For charging batteries,
> I will only need 5 V at a few hundred ma. Since that will have to be
> regulated, why not take the "wasted" power and put it back into the
> generator by mounting the regulator on the "hot" side of the TEG? In
> theory, over 10 watts can be pumped back into the TEG.
>
> I'm wondering if this can effectively bootstap the process. Cold
> running water is typically available out in the wilderness. Put the
> cold side heatsink into the running water and electricity should be

> produced though maybe not a lot at first. If this is disapated
> directly into the hot side of the TEG by a power transistor, it should
> start to warm up, making a larger temperature differental, making more
> juice and so on until some equalibrium is reached. Shades of
> perpertual motion :-)
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> Another question is will there be enough surplus energy left over to
> do the charging? Yet other question is if the process has to be
> started by first heating up the hot side and if it would then remain
> self-substaining?
>
> But if that doesn't work, plan B is to get a little backpackable wood
> stove and use that as the heat source. I'm looking at one made of
> titanium plates which lock together to make a box. Since this stove
> has flat sides, attaching the TEG to it would be simple.
>
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> unattended all night to charge something. Plan B would require keeping
> a close eye on the wood stove, which goes through fuel quickly. Not a
> lot of fuel, but it burns up small sticks pretty fast.
>
> In any event, this should prove to be interesting to try.
>
> 72, Steve KD1JV
>
>

8194. Re: What to do next? - tune mode - added suggestion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 15:19:56 UTC
From: cloud runner
Topic: 8194 Message: 8194

Seems like a very good idea. Would add that I always "tune" up my antenna/tuner by.

* reducing the voltage 3 volts by switching in four diodes in series with the battery supply line, and

* using a Tayloe SWR bridge which sends 75% of the power into 50 ohm resistive load, and

* by sending dits, only 50% duty cycle, while watching the SWR bridge LED go out.

I have never used the "tune" mode for tuning or anything else, for that matter.

I would, therefore, like to suggest that:

* make the default of the tune mode Vojtech's low duty cycle, and ...

* in the tune mode, automatically switch several dropping diodes in series with the power source so that the extior voltage controller so many of use would become unnecessary.

the ATS3B in an Altoids tin weighs a little over two ounces. The voltage controller which includes a toggle switch which I consider necessary to operate the ATS3B in the field, weighs more than an ounce. it requires an extra cable with jacks and plugs to get in and out of it, a toggle switch, and something for a case. but all that is really needed is a coupla diodes and a way to instruct when they are in the DC line. This outboard device weighs 50% as much as the entire radio, and could be disappeared with a couple of diodes and a little program logic.

73, fred - kt5x

Steve,

I was going through about 2 years of this list and found a very good suggestion for a tuning mode by Ken AA7JC, which is trivial to implement:

> I am thinking that in reality, there are times when everyone resorts to a low power dead key as they struggle with difficult tuning situations in a field environment (and does a station ID at the end of course). The ATS3 even has a dead key tune position in its menu. There is no power adjustment so it is either full power or nothing.. given the choice of a full power dead key or a full power low duty cycle rapid pulse, I would choose the later every time (its easier on the finals and the battery). I would not eliminate the dead key feature, I would just add another choice..
>
> I have an MFJ device that does this at 75WPM, 13% duty cycle and I find it to be wonderful.. That is why I would like to see this as an option in the ATS3X rigs..

There are just three buttons used in the tune mode. Key down, key up and escape. The fourth button could be used for the low duty cycle tune mode.

73, Vojtech OK1IAK

8195. Fcc-1 to Ats3

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 15:37:20 UTC
From: Dale Taylor
Topic: 8195 Message: 8195

Anyone Guide me to the hookup using my FCC-1 to my Ats-3 unit

Tks Dale
please e mail to wb8woj@...

8196. Re: [AT_Sprint] Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 17:27:27 UTC
From: Steve
Topic: 8187 Message: 8196

Reading about your research reminds me of the wood burning Zip stoves built by ZZ Manufacturing and designed for backpacking (http://www.zzstove.com/). They have a small integral fan to keep the stove burning at higher temperatures. The fan could be used to consume some of the excess power when heating the TEG.

However I keep thinking of the schemes proposed to generate electricity using the motion of walking - which there will be plenty of in your pursuits. Here is a recent development that caught my eye...

http://www.christianpost.com/news/power-your-gadgets-by-electricity-from-walking-54506/
http://techcrunch.com/2011/08/25/nanopower-shoes-could-generate-20w-of-electricity-during-walking/
http://www.instepnanopower.com/Default.aspx

Perhaps they are looking for testers?

Steve
aa8af

8197. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 20:11:12 UTC
From: Steven Weber
Topic: 8187 Message: 8197

>
> Would you give us a link to your source of the cell, please? I wonder
> whether they are able to withstand more thermal abuse than the Tellur
> Peltier cells.
>

www.tegpower.com/pro3.htm It's not cheap at $80.00, so I hope it really is useful. Rated up to 325 C. The 15V , 1A might be at 260 C, but I'm not sure how one would make that big a temperature differental across a half inch!

>If you preheat the plates with electric current and then cool one side of
>it with cold pot, the temperature of the cell will equalize soon after you
>disconnect it from the current source. It will generate enough energy for
>sure if you put it on fire and don't burn it though.

I wouldn't pre heat it by putting a current through it, my idea was to use the current it generates to heat a power transistor, which puts heat back into the generator. The only question is what would it take to get the process started? I suspect fire will be required.

BTW, what started me on this path is a commercial backpackable wood stove with one of these built in. http://www.biolitestove.com/BioLite.html Unfortunetly, it is not yet available and costs $170.

Steve KD1JV

8198. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 20:52:02 UTC
From: Stephen Wandling
Topic: 8187 Message: 8198

I believe your concept is in the realm of perpetual motion? But, if anyone figures out how to do that, you're probably the guy!

72 Stephen VE7NSD
On 27/01/2012 12:11 PM, Steven Weber wrote:
> I wouldn't pre heat it by putting a current through it, my idea was to use
> the current it generates to heat a power transistor, which puts heat back
> into the generator.

8199. Rotary encoder kit for ATS - reloaded

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 21:50:16 UTC
From: Petr
Topic: 8199 Message: 8199

Hi,

as Miroslav informed me last week although his famous Rotary encoder kit for ATS was retired already he is thinking about its comeback. He is still getting the orders and gathered enough requests for another batch of PCBs and ICs orders to complete the kits.

So my hint is to not wait and check the link here:

http://diy4fun.blogspot.com/2010/01/rotary-encoder-for-ats-transceiver.html

and here:

http://diy4fun.blogspot.com/2010/02/rotary-encoder-for-ats-assembly.html

... and order the Rotary Encoder kit for Your ATS jewel in good time.
It is suitable for all ATS series but describe him which type You have as the last ATS-4 version is slightly different.

73 - Petr, OK1RP
ATS-3Ae ("encoder")

8200. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 22:15:42 UTC
From: Steven Weber
Topic: 8187 Message: 8200

>I believe your concept is in the realm of perpetual motion?
Yes, it does sound that way, but this is actually an energy harvesting system. I'm really curious as to how much of a temperature gradiant is needed to get the kind of power I need. (say 1W) Would it be possible to put one end in cold water (a pond or stream) and use a rock which has the warmth of the day stored in it as heat source? Would feeding any excess energy produced back into the system significantly improve the overall effeciency or would that be a wasted effort?

Most likey the only really practical method will be to attach the generator to the side of a wood stove, or place a can full of hot coals on top if it, with the other side heat sunk to a puddle of water. Solar isn't a practical energy source when your on the move during the day and often under tree cover. Power produced by heat in the evening sitting around a camp fire seems much more practical.

Steve KD1JV

8201. Re: [AT_Sprint] Rotary encoder kit for ATS - reloaded

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 22:27:07 UTC
From: Steven Bornstein
Topic: 8199 Message: 8201

Petr,

How do you order one of the rotary encoders?

73, Steve K8IDN

Sent from my iPad

On Jan 27, 2012, at 16:50, "Petr" <indians@...> wrote:

> Hi,
>
> as Miroslav informed me last week although his famous Rotary encoder kit for ATS was retired already he is thinking about its comeback. He is still getting the orders and gathered enough requests for another batch of PCBs and ICs orders to complete the kits.
>
> So my hint is to not wait and check the link here:
>
> http://diy4fun.blogspot.com/2010/01/rotary-encoder-for-ats-transceiver.html
>
> and here:
>
> http://diy4fun.blogspot.com/2010/02/rotary-encoder-for-ats-assembly.html
>
> ... and order the Rotary Encoder kit for Your ATS jewel in good time.
> It is suitable for all ATS series but describe him which type You have as the last ATS-4 version is slightly different.
>
> 73 - Petr, OK1RP
> ATS-3Ae ("encoder")
>
>
>
>
> ---
>
> Yahoo! Groups Links
>
>
>

8202. Re: Rotary encoder kit for ATS - reloaded

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 22:41:25 UTC
From: Petr
Topic: 8199 Message: 8202

Steve,

just send an email to Miroslav directly to diy4funatgmaildotcom
(correct the address of course) with ATS version. He will contact You back.

73 - Petr, OK1RP

--- In AT_Sprint@yahoogroups.com, Steven Bornstein <saborns@...> wrote:
>
> Petr,
>
> How do you order one of the rotary encoders?
>
> 73, Steve K8IDN
>
>
>
>
> Sent from my iPad
>
> On Jan 27, 2012, at 16:50, "Petr" <indians@...> wrote:
>
> > Hi,
> >
> > as Miroslav informed me last week although his famous Rotary encoder kit for ATS was
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> >
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> > ATS-3Ae ("encoder")
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> >
> >
> >

> > ----------
> >
> > Yahoo! Groups Links
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>

8203. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-27 23:16:33 UTC
From: Stephen Wandling
Topic: 8187 Message: 8203

It's too bad they don't supply output curves for the device. If it takes 500 deg F to achieve 15 W, I doubt that the output would be straight line, which would mean 1 W would need only 15 deg F differential. Do these devices tend to have a 'start threshold'? I.e., no output until some minimum temperature differential is achieved?

Looking at the Biolite system, it shows what seems to be a much larger area thermocouple and a significant heat sink on the 'cold' side. But, I don't see any mention of their electrical output capacity. If find that bothersome.

BTW, I wonder about their 'Home Stove'. Charging a cell phone in rural Africa or a poor Indian home, seems 'silly' at the least. And there are lots of designs for inexpensive (or even free) 'rocket' stoves that are able to burn small twigs effectively, as well as the commonly used dried animal manure. I make mine, for backpacking, from tin cans.

A few years back a bought a few crank LED flashlights, that had a jack for the 3.6 VDC output, to charge a cell phone. I had several opportunities to check out the cell phone charging and it worked well. Unfortunately, at that time I had a Motorola phone, so I don't have the necessary cable for my smartphone, but I will probably make one soon.

I look forward to your 'tests' when you get your unit.

72 Stephen VE7NSD

On 27/01/2012 2:15 PM, Steven Weber wrote:
>> I believe your concept is in the realm of perpetual motion?
> Yes, it does sound that way, but this is actually an energy harvesting
> system. I'm really curious as to how much of a temperature gradiant is
> needed to get the kind of power I need. (say 1W)

8204. RE: [AT_Sprint] Rotary encoder kit for ATS - reloaded

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-28 01:44:19 UTC
From: Dale Putnam
Topic: 8199 Message: 8204

a fellow, just might want to email me.. I have a couple here.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: saborns@...
Date: Fri, 27 Jan 2012 17:27:07 -0500
Subject: Re: [AT_Sprint] Rotary encoder kit for ATS - reloaded

Petr,

How do you order one of the rotary encoders?

73, Steve K8IDN

Sent from my iPad

On Jan 27, 2012, at 16:50, "Petr" <indians@xsmail.com> wrote:

> Hi,

>

> as Miroslav informed me last week although his famous Rotary encoder kit for ATS was retired already he is thinking about its comeback. He is still getting the orders and gathered enough requests for another batch of PCBs and ICs orders to complete the kits.

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>

> 73 - Petr, OK1RP

> ATS-3Ae ("encoder")

>

>

>

>

> ---

>

> Yahoo! Groups Links

>

>

>

8205. Re: Re[2]: [AT_Sprint] When will available for sale ATS4b?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-28 08:03:25 UTC
From: Milton A Riutort
Topic: 8180 Message: 8205

Hi Lee,

A lot of comments and reactions are placed inside the forum emails about this radio. But, it is in Steve "work bench", so not sure if he have a link, yet. Any way, the radio is running in the ATS3 family small form factor with only two bands design.

The main difference are, that you may select which two band you fabricate it from a group of five from 80m to 20m, and the two band are installed on the radio main board with switch to change wich one to operate like the ATS4 radio. Also, some fixes/changes on the ATS3 firmware program. And a lower price than the the ATS4.

I may be wrong so, Steve can give us a better project idea, but this is mor or less, the new radio concept.

Keep reading the forum emails and participate on it learn more.

73 de Milton
NP4KT

Sent from my iPhone

On Jan 26, 2012, at 3:38 PM, Lee Hiers <lee.hiers@...> wrote:

> On Thu, Jan 26, 2012 at 2:34 PM, Alex Ponomarenko <ur5lam@...> wrote:
>
> Steve, Give me link on this device, please.
>
> There is no link for this radio yet - Steve is still designing it!
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
>

8206. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-28 14:33:52 UTC
From: Steven Carr
Topic: 8187 Message: 8206

any IEEE members out there? I don't have access to it, but this document may help.

http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5448384

On 01/27/2012 06:16 PM, Stephen Wandling wrote:
>
> It's too bad they don't supply output curves for the device. If it
> takes 500 deg F to achieve 15 W, I doubt that the output would be
> straight line, which would mean 1 W would need only 15 deg F
> differential. Do these devices tend to have a 'start threshold'? I.e.,
> no output until some minimum temperature differential is achieved?
>
> Looking at the Biolite system, it shows what seems to be a much larger
> area thermocouple and a significant heat sink on the 'cold' side. But,
> I don't see any mention of their electrical output capacity. If find
> that bothersome.
>
> BTW, I wonder about their 'Home Stove'. Charging a cell phone in rural
> Africa or a poor Indian home, seems 'silly' at the least. And there are
> lots of designs for inexpensive (or even free) 'rocket' stoves that are
> able to burn small twigs effectively, as well as the commonly used dried
> animal manure. I make mine, for backpacking, from tin cans.
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> A few years back a bought a few crank LED flashlights, that had a jack
> for the 3.6 VDC output, to charge a cell phone. I had several
> opportunities to check out the cell phone charging and it worked well.
> Unfortunately, at that time I had a Motorola phone, so I don't have the
> necessary cable for my smartphone, but I will probably make one soon.
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> I look forward to your 'tests' when you get your unit.
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> 72 Stephen VE7NSD
>
> On 27/01/2012 2:15 PM, Steven Weber wrote:
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> > > system. I'm really curious as to how much of a temperature gradiant is
> > > needed to get the kind of power I need. (say 1W)
>
>

8207. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-28 15:29:14 UTC
From: Steven Carr
Topic: 8187 Message: 8207

If there is enough interest we could save $20/unit on a bulk order of 10
or more of the TEGP15. (I'd be interested in 2 units)

On 01/27/2012 03:11 PM, Steven Weber wrote:
>
> >
> > Would you give us a link to your source of the cell, please? I wonder
> > whether they are able to withstand more thermal abuse than the Tellur
> > Peltier cells.
> >
>
> www.tegpower.com/pro3.htm It's not cheap at $80.00, so I hope it
> really is
> useful. Rated up to 325 C. The 15V , 1A might be at 260 C, but I'm not
> sure
> how one would make that big a temperature differental across a half inch!
>
> >If you preheat the plates with electric current and then cool one
> side of
> >it with cold pot, the temperature of the cell will equalize soon
> after you
> >disconnect it from the current source. It will generate enough energy
> for
> >sure if you put it on fire and don't burn it though.
>
> I wouldn't pre heat it by putting a current through it, my idea was to
> use
> the current it generates to heat a power transistor, which puts heat back
> into the generator. The only question is what would it take to get the
> process started? I suspect fire will be required.
>
> BTW, what started me on this path is a commercial backpackable wood stove
> with one of these built in. http://www.biolitestove.com/BioLite.html
> Unfortunetly, it is not yet available and costs $170.
>
> Steve KD1JV
>
>

8208. Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-28 15:52:08 UTC
From: tlcfarmer@yahoo.com
Topic: 8187 Message: 8208

Their is some pretty useful info from the manufacturer about this thing's usefulness in this youtube video: http://www.youtube.com/watch?v=dMD4GlzLPzw

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com, Stephen Wandling <swandling@...> wrote:
>
> It's too bad they don't supply output curves for the device. If it
> takes 500 deg F to achieve 15 W, I doubt that the output would be
> straight line, which would mean 1 W would need only 15 deg F
> differential. Do these devices tend to have a 'start threshold'? I.e.,
> no output until some minimum temperature differential is achieved?
>
> Looking at the Biolite system, it shows what seems to be a much larger
> area thermocouple and a significant heat sink on the 'cold' side. But,
> I don't see any mention of their electrical output capacity. If find
> that bothersome.
>
> BTW, I wonder about their 'Home Stove'. Charging a cell phone in rural
> Africa or a poor Indian home, seems 'silly' at the least. And there are
> lots of designs for inexpensive (or even free) 'rocket' stoves that are
> able to burn small twigs effectively, as well as the commonly used dried
> animal manure. I make mine, for backpacking, from tin cans.
>
> A few years back a bought a few crank LED flashlights, that had a jack
> for the 3.6 VDC output, to charge a cell phone. I had several
> opportunities to check out the cell phone charging and it worked well.
> Unfortunately, at that time I had a Motorola phone, so I don't have the
> necessary cable for my smartphone, but I will probably make one soon.
>
> I look forward to your 'tests' when you get your unit.
>
> 72 Stephen VE7NSD
>
> On 27/01/2012 2:15 PM, Steven Weber wrote:
> >> I believe your concept is in the realm of perpetual motion?
> > > Yes, it does sound that way, but this is actually an energy harvesting
> > > system. I'm really curious as to how much of a temperature gradiant is
> > > needed to get the kind of power I need. (say 1W)
>

8209. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-28 18:27:33 UTC
From: Stephen Wandling
Topic: 8187 Message: 8209

I found this video interesting, and it also triggered a memory. Awhile back a friend sent me a link regarding a 13 year old who had designed a solar array by using the Fibonacci sequence. He had a bunch of ~2" square panels that were installed in a 'tree' form, at "Fibonacci angles". The professed advantage was that, when compared with another 'fixed' panel, the 'tree' maintained higher voltage output during a day of insolation.

I poked around and finally found a EE that had critiqued the experiment and who, very reluctantly, pointed out that the kid was only measuring open circuit voltage, which on a solar panel quickly jumps to the 15 to 17 VDC range and doesn't vary much with different amounts of insolation. It's the current that varies significantly during various amounts of sunshine.

All of the thermal experiments in the video were done without any load on the circuit. And as we saw the unit quickly starts producing it's open circuit voltage, but the current available is related to the thermal conditions, just at the current available from a solar panel is related to solar conditions. What would have been valuable to see is what the charge rate would be for a battery. This the video doesn't show.

But, this doesn't mean that one can't get usable output from common situations, with these units. I will be keen to hear Steve's results.

72 Stephen VE7NSD

On 28/01/2012 7:52 AM, tlcfarmer@... wrote:
> Their is some pretty useful info from the manufacturer about this thing's usefulness in this youtube video:http://www.youtube.com/watch?v=dMD4GlzLPzw
>

8210. Re: [AT_Sprint] Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-28 20:20:49 UTC
From: Steven Carr
Topic: 8187 Message: 8210

Steve,

Did you consider the HTTEM modules? If you only need 5v, maybe wire two of those modules in parallel and mount them to the bottom of an altoids tin...which should leave about 1cm clearance in the tin for a low profile heatsink or thin fan.

to heat simply open the altoid tin lid 90deg and stand on end near a campfire or wood stove.

a candle lantern might be more convenient than a campfire if you only need a short recharge cycle. I'm guessing you know exactly which one I'm thinking about, but I've included links for non-backpackers. also there now is a tea light lantern that is smaller and collapsible.
http://www.rei.com/product/637736/rei-candle-lantern-ready-kit-aluminum
(standard collapsible lantern, 10hr/candle)
http://www.rei.com/product/737330/uco-candle-lantern-beeswax-candles-package-of-3
(beeswax refills, 12-15hr/candle)
http://www.rei.com/product/820304/uco-micro-candle-lantern (collapsible tea light lantern, 3-4hr/tea light)

Steve (ae4yq)

On 01/26/2012 09:54 PM, Steven wrote:
>
> I ordered a TEG (thermal electric generator)yesterday which should
> prove interesting to play with. It claims to be able to produce up to
> 15 V at 1 A, or 15 watts and at 3" x 3" x 0.5" is reasonably small.
> However, what kind of delta T it takes to produce 15W is not
> specified, I'll have to figure that out on my own.
>
> A TEG is made up of bimetalic semiconductor junctions wired in
> series/parallel. When placed between two metal plates (typcially
> aluminum), then heated on one side and cooled on the other, electricty
> is produced. These can also be use in reverse, putting current into
> them will cause one side to get cold and the other hot. This is known
> as the Peltier effect and is used for CPU cooling. However, I found
> out the coolers have all thier juncitons wired in parallel, so only
> produce a small voltage when used as a generator.
>
> My plan is to use the TEG to charge Li-ion batteries during extended
> hiking trips. It's easier to arrange for fire at night then sun during
> the day! But there is something I want to try. For charging batteries,
> I will only need 5 V at a few hundred ma. Since that will have to be
> regulated, why not take the "wasted" power and put it back into the
> generator by mounting the regulator on the "hot" side of the TEG? In

> theory, over 10 watts can be pumped back into the TEG.
>
> I'm wondering if this can effectively bootstap the process. Cold
> running water is typically available out in the wilderness. Put the
> cold side heatsink into the running water and electricity should be
> produced though maybe not a lot at first. If this is disapated
> directly into the hot side of the TEG by a power transistor, it should
> start to warm up, making a larger temperature differental, making more
> juice and so on until some equalibrium is reached. Shades of
> perpertual motion :-)
>
> Another question is will there be enough surplus energy left over to
> do the charging? Yet other question is if the process has to be
> started by first heating up the hot side and if it would then remain
> self-substaining?
>
> But if that doesn't work, plan B is to get a little backpackable wood
> stove and use that as the heat source. I'm looking at one made of
> titanium plates which lock together to make a box. Since this stove
> has flat sides, attaching the TEG to it would be simple.
>
> The advantage of Plan A is that if it works it could be left
> unattended all night to charge something. Plan B would require keeping
> a close eye on the wood stove, which goes through fuel quickly. Not a
> lot of fuel, but it burns up small sticks pretty fast.
>
> In any event, this should prove to be interesting to try.
>
> 72, Steve KD1JV
>
>

8211. ATS-3B Stuff

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-28 21:28:01 UTC
From: aripple@bevcom.net
Topic: 8211 Message: 8211
Attachments: 3 described; binary payloads are missing from this source WARC

Just a few ideas to share with other ATS-3B users

First the extra Altoids tin lined with Great Plaines single sided wing seating tape

(See the attached photo) it holds the extra band boards nicely.

Second take a look at the boards and see I dripped candle wax on them to stop them from moving around and it did not effect operation .

Thanks for looking

Arthur NS7E

8212. Re: ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-28 21:33:44 UTC
From: aripple@bevcom.net
Topic: 8212 Message: 8212
Attachments: 3 described; binary payloads are missing from this source WARC

Just a few ideas to share with other ATS-3B users

First the extra Altoids tin lined with Great Plaines single sided wing seating tape

(See the attached photo) it holds the extra band boards nicely.

Second take a look at the boards and see I dripped candle wax on them to stop them from moving around and it did not effect operation .

Thanks for looking

Arthur NS7E

8213. Re: [AT_Sprint] Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-28 23:23:47 UTC
From: Steven Weber
Topic: 8187 Message: 8213

No, didn't run across HTTEM modules. I did find some raw 3 and 5 volt modules. But at about 40 a piece, the 15V unit mounted to aluminum plates from TEGpower seemed to be a better deal all in all.

I started thinking about the candle powered idea last night. I like this idea because then you could say your rig runs on one candle power :-)

The TEG I ordered is a little too big for an Altoids tin, but that general idea is sound. The youtube video Lincoln, N9IN found gave me some ideas. I'm thinking a combo water reservoir and fan for the cooling side. Well, since it could be a couple of weeks before this thing shows up, got lots of time to think up schemes for using it...

Steve KD1JV

Did you consider the HTTEM modules? If you only need 5v, maybe wire two of those modules in parallel and mount them to the bottom of an altoids tin...which should leave about 1cm clearance in the tin for a low profile heatsink or thin fan. to heat simply open the altoid tin lid 90deg and stand on end near a campfire or wood stove.

8214. Re: [AT_Sprint] Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-28 23:31:47 UTC
From: Steven Carr
Topic: 8187 Message: 8214

http://tegpower.com/pro4.htm

On 01/28/2012 06:23 PM, Steven Weber wrote:
>
> No, didn't run across HTTEM modules. I did find some raw 3 and
> 5 volt modules. But at about 40 a piece, the 15V unit mounted to
> aluminum plates from TEGpower seemed to be a better deal all in all.
> I started thinking about the candle powered idea last night. I like
> this idea because then you could say your rig runs on one candle power
> :-)
> The TEG I ordered is a little too big for an Altoids tin, but that
> general idea is sound. The youtube video Lincoln, N9IN found gave me
> some ideas. I'm thinking a combo water reservoir and fan for the
> cooling side. Well, since it could be a couple of weeks before this
> thing shows up, got lots of time to think up schemes for using it...
> Steve KD1JV
> Did you consider the HTTEM modules? If you only need 5v, maybe wire
> two of those modules in parallel and mount them to the bottom of an
> altoids tin...which should leave about 1cm clearance in the tin for a
> low profile heatsink or thin fan. to heat simply open the altoid tin
> lid 90deg and stand on end near a campfire or wood stove.
>
>
>

8215. ATS4B and PSK31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 01:33:57 UTC
From: cloud runner
Topic: 8215 Message: 8215

Do I recall there was going to be some kind of daughter board for this radio that has something to do with operating PSK31 ??? I don't normally operate PSK31, but would, in the field, if it didn't require a computer in addition to the radio to do it!!!

watsa?

72, fred - kt5x

8216. RE: [AT_Sprint] Re: ATS-3B [3 Attachments]

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 01:35:34 UTC
From: Dale Putnam
Topic: 8212 Message: 8216

Very nicely done Arthur, Well done!
--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: aripple@...
Date: Sat, 28 Jan 2012 15:33:44 -0600
Subject: [AT_Sprint] Re: ATS-3B [3 Attachments]

[Attachment(s) from aripple@... included below]

Just a few ideas to share with other ATS-3B users

First the extra Altoids tin lined with Great Plaines
single sided wing seating tape
(See the attached photo) it holds the extra
band boards nicely.

Second take a look at the boards and see I
dripped candle wax on them to stop them from moving around and it
did not effect operation .

Thanks for looking
Arthur NS7E

8217. Re: [AT_Sprint] ATS4B and PSK31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 03:44:17 UTC
From: Steven Weber
Topic: 8215 Message: 8217

Yes, that is on my list of thing to do in the near future.
Steve

Do I recall there was going to be some kind of daughter board for this radio that has something to do with operating PSK31 ??? I don't normally operate PSK31, but would, in the field, if it didn't require a computer in addition to the radio to do it!!!

8218. Re: ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 14:48:53 UTC
From: ve3wmb
Topic: 8212 Message: 8218

Arthur :

Good stuff !

I did something similar for the band modules for my ATS-3A.
I took a spare Altoids tin and cut a piece of anti-static foam (the stuff that you stick ICs in) and glued it to the inside of the tin. The foam is thick enough that I can plug the band modules into it and they stay put.

I was also concerned about damaging the toroids on the band modules (especially the 80m module as the wires are really small) so I used a Doug Hendricks trick that I gleaned from building the commercial version of KD1JVs ALT Tuner.
I put a tiny sliver of hot glue between the toroids and the band module board and gently heated with hot air until it melted.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "aripple@..." <aripple@...> wrote:
>
> Just a few ideas to share with other ATS-3B users
>
>
> First the extra Altoids tin lined with Great Plaines single sided wing seating tape
>
> (See the attached photo) it holds the extra band boards nicely.
>
>
> Second take a look at the boards and see I dripped candle wax on them to stop them from moving around and it did not effect operation .
>
>
> Thanks for looking
>
> Arthur NS7E
>

8219. Today's Fireside Sprint event!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 15:21:06 UTC
From: James Rodenkirch
Topic: 7828 Message: 8219

OK - turned my log in for the CQ WW 160 contest - glad THAT'S over....my ears started bleeding yesterday morning from all of the band noise...but it's over and I scored a personal best for that contest and I'm pleased!

I found the microphone for my Ten Tec Argonaut V 516 so I'll be operating during the Fireside Sprint slated for 2000Z to 2359Z today. Look the rules and scoring and all at www.qrparci.org I'll be lookin' for y'all!

72, Jim Rodenkirch, K9JWV QRP ARCI Contest Manager

8220. Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 16:46:43 UTC
From: Dennis
Topic: 8187 Message: 8220

I don't recall Steve, but we may have talked about this as we walked the AT one day in Maine. Years ago I did some work with some piezoelectric plastic sheet. It had similar properties, except instead of heat, it involved mechanical motion. You could apply voltage to it and it would produce mechanical motion. I was using it for a acoustically coupled telephone modem design I was I was doing. It was functioning as the loudspeaker material.
The inverse was also true, you could hit it with mechanical motion and it would produce electricity. I never did investigate how much "power" it would generate, but I suspect it would be minuscule. Then again, maybe not, sometimes this stuff can be deceptive. I think we talked, probably in jest, about how we could make shoe liners for hikers and have the material generate power to charge the rig batteries. I figured at worst, it could "monitor" our feet during hiking and report on how they're doing..."blister forming on toe #3, assistance advised." Of course now with Twitter, we could take that a step further (excuse pun) and even have the stuff Tweet our feet, letting everyone know their status:
@HamFoot right foot thinks the left foot is lost. LOL Owner sends #CW like 2 left feet, sounds like K1YPP
Wow, didn't take me long to get off topic...
Dennis, K1YPP
--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> I ordered a TEG (thermal electric generator)yesterday which should prove interesting to play with. It claims to be able to produce up to 15 V at 1 A, or 15 watts and at 3" x 3" x 0.5" is reasonably small. However, what kind of delta T it takes to produce 15W is not specified, I'll have to figure that out on my own. ...
>
> In any event, this should prove to be interesting to try.
>
> 72, Steve KD1JV
>

8221. Re: [AT_Sprint] Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 16:47:50 UTC
From: Steven Weber
Topic: 8187 Message: 8221

http://tegpower.com/pro4.htm

Man, I wish I had seen those first! 5V can be plugged directly into the things I need to charge and at 1.2" square, these are small enough that an Altoids tin set up may be practical.

Guess I'll just have to order one of these also.

Steve KD1JV

8222. New Member 1st post

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 18:07:43 UTC
From: Bob AF2Q
Topic: 8222 Message: 8222

Hi group,I always liked the sprint and as time goes by I want one even more. However I am on an anti seizure med to control damaged nerves in my legs and it did get rid of most of the pain and I can walk again. However it took it's toll on my vision and putting a PICO keyer is an effort and after 15 minutes items that are 5 feet away look like their 20 feet away so I looking to buy a built unit or pay to have one built. Please E mail me off list.
Thanks Bob AF2Q
Former member of the 12 O'clock High Skydiving Team

8223. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 20:14:44 UTC
From: Steven Weber
Topic: 8187 Message: 8223

Piezoelectric makes really tiny amounts of power. Typcially a fairly high voltage at tiny currents. Just enough to make a spark and light the grill, hi. Using a bouncing magent in a coil of wire (like the flashlights) is one approch I've seen taken to extract energy from walking. I lost track of the site which was trying to make that work, so I don't know if they ever did or not.

If you could build little hydrolic pumps into the heel of the shoe and use that to run a generator, that might work, but the plumming would be a hassle.

All in all, I think the thermal electric generator is looking to be the most practical approch for extended hiking trips when away from mains power for a week or more at a time.

Steve kd1jv

The inverse was also true, you could hit it with mechanical motion and it would produce electricity. I never did investigate how much "power" it would generate, but I suspect it would be minuscule. Then again,

8224. QRP Hydro

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 21:03:46 UTC
From: Stephen Wandling
Topic: 8224 Message: 8224

I'm working on homebrewing a micro (qrp) hydro system. It will be used as a local demonstration site, with the hopes of leading to others getting off grid. This would be a system that will generate QRO power, in the range of 1-3 KW. I lied about the qrp. ;-)

The commercial systems use a ~415 V, 3 phase induction motor as their generator. I can source one on eBay, as well as a high voltage/current 3 phase bridge rectifier.

The suggested advantage for using such a motor is that it's much easier to move high voltage from the generation site, to the place it will be used and then convert it to DC there.

If this motor will be putting out ~350 V, 3 phase, and I will want a regulated DC output of around 12-17 VDC, how might I best achieve the voltage drop? With a 3 phase transformer ahead of the bridge rectifier (and where might I find one, or how might I make one) or some other system, after the bridge rectifier? The LM117/LM317 units have a maximum input voltage of 40 VDC.

My theory is weak in this area. For example, if I apply 350 V, 3 phase to a 3 phase bridge rectifier, what output voltage would I expect?

Any help/ideas will be appreciated.

72 Stephen VE7NSD

8225. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 21:30:33 UTC
From: Gilbert Gibbs
Topic: 8187 Message: 8225

Steve;

I took advantage of an offer for "door size solar panels", sent off just a few $$ for two, & they arrived a week later - carefully enclosed in a door-size cardboard carton, each. The idea isn't to power a hand-size rig, but to float charge a large battery which can keep my rig(s) on the air, "12 VDC style", when the local Candle, Power, and Lantern (CPL power grid) fails, for one reason or another.
For reasons unknown, perhaps that pesky salt ionic structure, the copper and steel wire grid tends to decay badly, and it got really bad after the whole outfit had changed directors, so AEP took over. Within a year, we had shutdowns on such a regular basis that most folks would look at a thunderstorm rolling toward us, go inside to shut down everything, then keep the freezer doors closed for two to three hours after the first "boom and flash".
Finally, someone decided that the huge grid which holds the transformers might do better with a metal building over them, and that work is more than half done. We haven't had a major shutdown in awhile, but I'm still looking for the correct size and type of 12 VDC battery for my QTH-powering solar cell system. The final part of the circuit will be to switch the AC grid totally out of the circuit to the rigs, when I hear "boom", or see a flash.
There are so many protective circuits plugged into my wall outlets that I've spent the price of a fancy rig on them, with the result being no damage to anything, computers and radio gear - over years.

What we could use is to have witchcraft and alchemy work, get away from the raw, hard, expensive facts of electricity! Too bad no one has figured out where to stand, and attach a long arm to the surface of the earth, use the rotation to do all the work, spin a pretty big alternator! (Well, after all, the science fiction of 50 years ago is now science fact, overall - those writers gave a lot of ideas to inventors - look at the ATS series)

73's, keep grinnin'

Gil WA5YKK

Piezoelectric makes really tiny amounts of power. Typcially a fairly high voltage at tiny currents. Just enough to make a spark and light the grill, hi. Using a bouncing magent in a coil of wire (like the flashlights) is one approch I've seen taken to extract energy from walking. I lost track of the site which was trying to make that work, so I don't know if they ever did or not.
If you could build little hydrolic pumps into the heel of the shoe and use that to run a generator, that might work, but the plumming would be

a hassle.
All in all, I think the thermal electric generator is looking to be the most practical approch for extended hiking trips when away from mains power for a week or more at a time.
Steve kd1jv
The inverse was also true, you could hit it with mechanical motion and it would produce electricity. I never did investigate how much "power" it would generate, but I suspect it would be minuscule. Then again,

8226. Re: [AT_Sprint] QRP Hydro

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 22:09:55 UTC
From: Steven Weber
Topic: 8224 Message: 8226

> The commercial systems use a ~415 V, 3 phase induction motor as their
> generator. I can source one on eBay, as well as a high voltage/current
> 3 phase bridge rectifier.

I'd be looking for a 3 phase transformer, though 3 normal ones would likely do the trick too. If you convert the raw AC from the generator to DC, you'd need a big hunking switching supply or you'd be able to heat the house with the heat disipated by a linear regulator! (or use that heat for a TEG and make more power...)

I have a small stream about 300 yards away from me. There are a couple of natural water falls of sorts where I could set up an "over the top" water wheel without too much trouble. Been thinking of using a car alturnator for the generator.

Steve kd1jv

8227. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 22:27:18 UTC
From: Steven Weber
Topic: 8187 Message: 8227

What we could use is to have witchcraft and alchemy work, get away from the raw, hard, expensive facts of electricity! Too bad no one has figured out where to stand, and attach a long arm to the surface of the earth, use the rotation to do all the work, spin a pretty big alternator! (Well, after all, the science fiction of 50 years ago is now science fact, overall - those writers gave a lot of ideas to inventors - look at the ATS series)

What someone needs to figure out is a way to direct lighting bolts into some giant capacitors and then extract it in a controlled manor.

BTW, I found the place which makes the kinetic energy harvesting device based on the bouncy magnet www.npowerpeg.com It uses a 1000 mahr battery to store the energy in. They claim 26 minutes of walking will power a 3G phone for 1 minute! I wonder how far you'd have to walk to go from say 50% charge to full charge on the internal battery? Probably a very long way!

Steve KD1JV

8228. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-29 22:45:21 UTC
From: Gilbert Gibbs
Topic: 8187 Message: 8228

On 1/29/2012 4:27 PM, Steven Weber wrote:
> What we could use is to have witchcraft and alchemy work, get away
> from the raw, hard, expensive facts of electricity! Too bad no one has
> figured out where to stand, and attach a long arm to the surface of
> the earth, use the rotation to do all the work, spin a pretty big
> alternator! (Well, after all, the science fiction of 50 years ago is
> now science fact, overall - those writers gave a lot of ideas to
> inventors - look at the ATS series)
>
> What someone needs to figure out is a way to direct lighting bolts
> into some giant capacitors and then extract it in a controlled manor.
> BTW, I found the place which makes the kinetic energy harvesting
> device based on the bouncy magnet www.npowerpeg.com
> <http://www.npowerpeg.com> It uses a 1000 mahr battery to store the
> energy in. They claim 26 minutes of walking will power a 3G phone for
> 1 minute! I wonder how far you'd have to walk to go from say 50%
> charge to full charge on the internal battery? Probably a very long way!
> Steve KD1JV

Oh, but one snag to directing lighting bolts - who's gonna hold the
spike up, during a thunderstorm, and attach it to a cap that can handle
the amps, with the volts being ungodly?

Anything that stores electricity for any work would need a darn good
chart to figure out if the response is linear or exponential. Hand that
task over to military Basic Trainees, tell them they can get another
stripe pretty easy from all that walking and running!

Where is Benjamin Franklin, his key and his kite, when we need him?

73's
Gil WA5YKK

8229. CW/PSK Decoder Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-30 00:54:26 UTC
From: bob_nelson_k2qpn
Topic: 8229 Message: 8229

I just got around to building the decoder. When I turn it on, the LCD stays blank. Adjusting the contrast does nothing. The voltages look good. If I connect up the audio, select CW mode(I guess), D1 LED blinks with the CW signal. It seems that the processor is working. I'm thinking that the display is bad.

Any ideas? Anybody have a source and part number for the LCD?

73, Bob K2QPN

8230. Re: [AT_Sprint] CW/PSK Decoder Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-30 04:36:49 UTC
From: Steven Weber
Topic: 8229 Message: 8230

Did you do the jumper modifications at the two pins of the display as shown
in the instructions?

>I just got around to building the decoder. When I turn it on, the LCD stays
>blank. Adjusting the contrast does nothing. The voltages look good. If I
>connect up the audio, select CW mode(I guess), D1 LED blinks with the CW
>signal. It seems that the processor is working. I'm thinking that the
>display is bad.
>
> Any ideas? Anybody have a source and part number for the LCD?
>

8231. Re: [AT_Sprint] QRP Hydro

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-30 12:01:34 UTC
From: Milton A Riutort
Topic: 8224 Message: 8231

About the voltage level when rectified AC, the formula is multiply your source AC voltage by 1.414. This why the '50 tube radios without transformer work on the 150 VDC.

Milton

Sent from my iPhone

On Jan 29, 2012, at 6:09 PM, "Steven Weber" <steve.kd1jv@...> wrote:

> > The commercial systems use a ~415 V, 3 phase induction motor as their
> > generator. I can source one on eBay, as well as a high voltage/current
> > 3 phase bridge rectifier.
>
> I'd be looking for a 3 phase transformer, though 3 normal ones would likely
> do the trick too. If you convert the raw AC from the generator to DC, you'd
> need a big hunking switching supply or you'd be able to heat the house with
> the heat disipated by a linear regulator! (or use that heat for a TEG and
> make more power...)
>
> I have a small stream about 300 yards away from me. There are a couple of
> natural water falls of sorts where I could set up an "over the top" water
> wheel without too much trouble. Been thinking of using a car alturnator for
> the generator.
>
> Steve kd1jv
>
>

8232. Re: CW/PSK Decoder Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-30 14:19:13 UTC
From: bob_nelson_k2qpn
Topic: 8229 Message: 8232

The mods were done. LCD pin 2 has 2.7VDC and pin 3 voltage varies with the contrast pot.

I see a display on DigiKey that looks to be an exact replacement. It is a HD44780U unit. My concern is that the spec sheet says it requires 5V.

73, Bob K2QPN

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Did you do the jumper modifications at the two pins of the display as shown
> in the instructions?
>
>
> >I just got around to building the decoder. When I turn it on, the LCD stays
> >blank. Adjusting the contrast does nothing. The voltages look good. If I
> >connect up the audio, select CW mode(I guess), D1 LED blinks with the CW
> >signal. It seems that the processor is working. I'm thinking that the
> >display is bad.
> >
> > Any ideas? Anybody have a source and part number for the LCD?
> >
>

8233. QRP ARCI Fireside Sprint is history!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-30 14:26:36 UTC
From: James Rodenkirch
Topic: 7828 Message: 8233

Well, the Fireside Sprint is over and we appreciate all that joined in for the fun. A reminder to submit your log(s) - regardless of the number of Qs, it's the known number of participants that helps us determine which contests/events remain "on the calendar" in the coming year(s). One fella turned in his log with one QSO and I thanked him for that as the logs all count and have weight!

Next up is the 2012 QRP ARCI HF Grid Square Sprint from 1500Z to 1800Z on 10 March 2012. A little three hour session with a relaxed exchange.
The mode is CW.
The exchange is:
Members send: RST, 4 Digit Maidenhead Grid Square (i.e. FN02), ARCI member number.
Non-Members send: RST, 4 Digit Maidenhead Grid Square (i.e. FN02), Power Out

Lookin' forward to hearing and working you on the bands and in the various QRP ARCI contests/events.

72, Jim Rodenkirch, K9JWV
QRP ARCI Contest Manager

8234. Re: CW/PSK Decoder Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-30 15:19:38 UTC
From: Vojtech
Topic: 8229 Message: 8234

Hi Bob.

The display is 5V indeed. Its logic runs from 2.7V, but the backplane needs at least 4.5V. Therefore the controller generates a square wave, which is rectified and negative voltage is generated. The negative voltage is fed to the hot end of the contrast pot, which you shall be able to measure with DVM.

73, Vojtech

--- In AT_Sprint@yahoogroups.com, "bob_nelson_k2qpn" <K2QPN@...> wrote:
>
> The mods were done. LCD pin 2 has 2.7VDC and pin 3 voltage varies with the contrast pot.
>
> I see a display on DigiKey that looks to be an exact replacement. It is a HD44780U unit. My concern is that the spec sheet says it requires 5V.
>
> 73, Bob K2QPN
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@> wrote:
> >
> > Did you do the jumper modifications at the two pins of the display as shown
> > in the instructions?
> >
> >
> > >I just got around to building the decoder. When I turn it on, the LCD stays
> > >blank. Adjusting the contrast does nothing. The voltages look good. If I
> > >connect up the audio, select CW mode(I guess), D1 LED blinks with the CW
> > >signal. It seems that the processor is working. I'm thinking that the
> > >display is bad.
> > >
> > > Any ideas? Anybody have a source and part number for the LCD?
> > >
> >
>

8235. Re: [AT_Sprint] QRP Hydro

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-31 01:20:52 UTC
From: Stephen Wandling
Topic: 8224 Message: 8235

On 29/01/2012 2:09 PM, Steven Weber wrote:
> If you convert the raw AC from the generator to DC, you'd
> need a big hunking switching supply
It appears this is exactly what they do. This is from their manual:
>
> To avoid the frequency problem we rectify the generator output first
> to high voltage DC, and then convert it to 12 or 24 volt using a
> ferrite transformer running at 20 kHz. This approach is used so as to
> avoid the use at 20 kHz. This approach is used so as to avoid the use
> transformers which would also worsen the build-up characteristics of
> the generator.
>
Is this what you mean by a switching supply?
> There are a couple of
> natural water falls of sorts where I could set up an "over the top" water
> wheel without too much trouble.
I saw a site with such a wheel, that was about 10' in diameter, with 6"
x 6" 'spokes', that was chain coupled to a jackshaft that was belt
coupled to an alternator. The wheel was turning at about 15 RPM, so it
needed lots of 'gearing' to get the alternator to a suitable speed.

72 Stephen VE7NSD

8236. Re: CW/PSK Decoder Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-01-31 20:58:48 UTC
From: bob_nelson_k2qpn
Topic: 8229 Message: 8236

Vojtech! That was the info that I needed. Cool circuit. I had no minus voltage. I had to resolder the ground lead of D4. Then I had -2.7V on the hot end of R9. Still no display. I had managed to kill R9. Put in a temporary replacement and I have a display.

Joy, but not complete joy. The splash screen looks Chinese or Japanese. The only thing that is recognizable is "1.0". Resoldered the four data lines from the CPU to the lcd.

JOY OH JOY! It works - copies CW and PSK.

--- In AT_Sprint@yahoogroups.com, "Vojtech" <bubnikv@...> wrote:
>
> Hi Bob.
>
> The display is 5V indeed. Its logic runs from 2.7V, but the backplane needs at least 4.5V. Therefore the controller generates a square wave, which is rectified and negative voltage is generated. The negative voltage is fed to the hot end of the contrast pot, which you shall be able to measure with DVM.
>
> 73, Vojtech
>
>
> --- In AT_Sprint@yahoogroups.com, "bob_nelson_k2qpn" <K2QPN@> wrote:
> >
> > The mods were done. LCD pin 2 has 2.7VDC and pin 3 voltage varies with the contrast pot.
> >
> > I see a display on DigiKey that looks to be an exact replacement. It is a HD44780U unit. My concern is that the spec sheet says it requires 5V.
> >
> > 73, Bob K2QPN
> >
> > --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@> wrote:
> > >
> > > Did you do the jumper modifications at the two pins of the display as shown
> > > in the instructions?
> > >
> > >
> > > >I just got around to building the decoder. When I turn it on, the LCD stays
> > > >blank. Adjusting the contrast does nothing. The voltages look good. If I
> > > >connect up the audio, select CW mode(I guess), D1 LED blinks with the CW
> > > >signal. It seems that the processor is working. I'm thinking that the
> > > >display is bad.
> > > >
> > > > Any ideas? Anybody have a source and part number for the LCD?
> > > >
> > >

> >
>

8237. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-01 15:01:52 UTC
From: Rich NU6T
Topic: 8187 Message: 8237

Actually, what we need is a way to bleed off wind/rain/snow static and convert into battery power <grin> to end up with a quiet antenna and extra energy.

Rich
NU6T

On 1/29/2012 2:45 PM, Gilbert Gibbs wrote:
>
> On 1/29/2012 4:27 PM, Steven Weber wrote:
>
>> What we could use is to have witchcraft and alchemy work, get away
>> from the raw, hard, expensive facts of electricity! Too bad no one
>> has figured out where to stand, and attach a long arm to the surface
>> of the earth, use the rotation to do all the work, spin a pretty big
>> alternator! (Well, after all, the science fiction of 50 years ago is
>> now science fact, overall - those writers gave a lot of ideas to
>> inventors - look at the ATS series)
>>
>> What someone needs to figure out is a way to direct lighting bolts
>> into some giant capacitors and then extract it in a controlled manor.
>> BTW, I found the place which makes the kinetic energy harvesting
>> device based on the bouncy magnet www.npowerpeg.com
>> <http://www.npowerpeg.com> It uses a 1000 mahr battery to store the
>> energy in. They claim 26 minutes of walking will power a 3G phone for
>> 1 minute! I wonder how far you'd have to walk to go from say 50%
>> charge to full charge on the internal battery? Probably a very long way!
>> Steve KD1JV
>
> Oh, but one snag to directing lighting bolts - who's gonna hold the
> spike up, during a thunderstorm, and attach it to a cap that can
> handle the amps, with the volts being ungodly?
>
> Anything that stores electricity for any work would need a darn good
> chart to figure out if the response is linear or exponential. Hand
> that task over to military Basic Trainees, tell them they can get
> another stripe pretty easy from all that walking and running!
>
> Where is Benjamin Franklin, his key and his kite, when we need him?
>
> 73's
> Gil WA5YKK
>

8238. Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-01 20:51:31 UTC
From: jor
Topic: 8187 Message: 8238

Hi Steve,

This is a good plan to use the TEG for generating power with a candle. Bravo..
This practical principle go back in 195xx's look at the side

http://www.aqpl43.dsl.pipex.com/MUSEUM/POWER/thermoelectric/thermoelectric.htm look below

Was a russian desing used for radio receivers, scale it down and I think it will work a question of engenering...

73' Joris van Scheindelen PE1KTH Tninking also on Magnetic motion generating Hi..

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> I ordered a TEG (thermal electric generator)yesterday which should prove interesting to play with. It claims to be able to produce up to 15 V at 1 A, or 15 watts and at 3" x 3" x 0.5" is reasonably small. However, what kind of delta T it takes to produce 15W is not specified, I'll have to figure that out on my own.
>
> A TEG is made up of bimetalic semiconductor junctions wired in series/parallel. When placed between two metal plates (typcially aluminum), then heated on one side and cooled on the other, electricty is produced. These can also be use in reverse, putting current into them will cause one side to get cold and the other hot. This is known as the Peltier effect and is used for CPU cooling. However, I found out the coolers have all thier juncitons wired in parallel, so only produce a small voltage when used as a generator.
>
> My plan is to use the TEG to charge Li-ion batteries during extended hiking trips. It's easier to arrange for fire at night then sun during the day! But there is something I want to try. For charging batteries, I will only need 5 V at a few hundred ma. Since that will have to be regulated, why not take the "wasted" power and put it back into the generator by mounting the regulator on the "hot" side of the TEG? In theory, over 10 watts can be pumped back into the TEG.
>
> I'm wondering if this can effectively bootstap the process. Cold running water is typically available out in the wilderness. Put the cold side heatsink into the running water and electricity should be produced though maybe not a lot at first. If this is disapated directly into the hot side of the TEG by a power transistor, it should start to warm up, making a larger temperature differental, making more juice and so on until some equalibrium is reached. Shades of perpertual motion :-)
>
> Another question is will there be enough surplus energy left over to do the charging? Yet other question is if the process has to be started by first heating up the hot side and if it would then remain self-substaining?
>
> But if that doesn't work, plan B is to get a little backpackable wood stove and use that as the heat source. I'm looking at one made of titanium plates which lock together to make

a box. Since this stove has flat sides, attaching the TEG to it would be simple.
>
> The advantage of Plan A is that if it works it could be left unattended all night to charge something. Plan B would require keeping a close eye on the wood stove, which goes through fuel quickly. Not a lot of fuel, but it burns up small sticks pretty fast.
>
> In any event, this should prove to be interesting to try.
>
> 72, Steve KD1JV
>

8239. Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-01 21:38:53 UTC
From: jor
Topic: 8187 Message: 8239

Hi steve,

See a example of thermal electric generator on this site.

http://www.thermonamic.com/Pro_View.asp?Id=822

73' Joris PE1KTH

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> I ordered a TEG (thermal electric generator)yesterday which should prove interesting to play with. It claims to be able to produce up to 15 V at 1 A, or 15 watts and at 3" x 3" x 0.5" is reasonably small. However, what kind of delta T it takes to produce 15W is not specified, I'll have to figure that out on my own.
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>
> My plan is to use the TEG to charge Li-ion batteries during extended hiking trips. It's easier to arrange for fire at night then sun during the day! But there is something I want to try. For charging batteries, I will only need 5 V at a few hundred ma. Since that will have to be regulated, why not take the "wasted" power and put it back into the generator by mounting the regulator on the "hot" side of the TEG? In theory, over 10 watts can be pumped back into the TEG.
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>
> The advantage of Plan A is that if it works it could be left unattended all night to charge something. Plan B would require keeping a close eye on the wood stove, which goes

through fuel quickly. Not a lot of fuel, but it burns up small sticks pretty fast.
>
> In any event, this should prove to be interesting to try.
>
> 72, Steve KD1JV
>

8240. WTB: ATS 4 or ATS3

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-01 23:57:33 UTC
From: nm5tw
Topic: 8240 Message: 8240

Looking for an ATS4 or maybe an ATS3 to purchase.

PLease respond off the reflector to NM5TW@...

Thank you, Tom NM5TW

8241. Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-02 13:11:52 UTC
From: Tim W4YN
Topic: 8187 Message: 8241

According to a friend of mine some of these are still in use remote Russian areas.
Tim W4YN

--- In AT_Sprint@yahoogroups.com, "jor" <kthkit@...> wrote:
>
> Hi Steve,
>
> This is a good plan to use the TEG for generating power with a candle. Bravo..
> This practical principle go back in 195xx's look at the side
>
> http://www.aqpl43.dsl.pipex.com/MUSEUM/POWER/thermoelectric/thermoelectric.htm look below
>
> Was a russian desing used for radio receivers, scale it down and I think it will work a question of engenering...
>
> 73' Joris van Scheindelen PE1KTH Tninking also on Magnetic motion generating Hi..
>
>
> --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@> wrote:
> >
> > I ordered a TEG (thermal electric generator)yesterday which should prove interesting to play with. It claims to be able to produce up to 15 V at 1 A, or 15 watts and at 3" x 3" x 0.5" is reasonably small. However, what kind of delta T it takes to produce 15W is not specified, I'll have to figure that out on my own.
> >
> > A TEG is made up of bimetalic semiconductor junctions wired in series/parallel. When placed between two metal plates (typcially aluminum), then heated on one side and cooled on the other, electricty is produced. These can also be use in reverse, putting current into them will cause one side to get cold and the other hot. This is known as the Peltier effect and is used for CPU cooling. However, I found out the coolers have all thier juncitons wired in parallel, so only produce a small voltage when used as a generator.
> >
> > My plan is to use the TEG to charge Li-ion batteries during extended hiking trips. It's easier to arrange for fire at night then sun during the day! But there is something I want to try. For charging batteries, I will only need 5 V at a few hundred ma. Since that will have to be regulated, why not take the "wasted" power and put it back into the generator by mounting the regulator on the "hot" side of the TEG? In theory, over 10 watts can be pumped back into the TEG.
> >
> > I'm wondering if this can effectively bootstap the process. Cold running water is typically available out in the wilderness. Put the cold side heatsink into the running water and electricity should be produced though maybe not a lot at first. If this is disapated directly into the hot side of the TEG by a power transistor, it should start to warm up, making a larger temperature differental, making more juice and so on until some

equalibrium is reached. Shades of perpertual motion :-)
> >
> > Another question is will there be enough surplus energy left over to do the charging? Yet other question is if the process has to be started by first heating up the hot side and if it would then remain self-substaining?
> >
> > But if that doesn't work, plan B is to get a little backpackable wood stove and use that as the heat source. I'm looking at one made of titanium plates which lock together to make a box. Since this stove has flat sides, attaching the TEG to it would be simple.
> >
> > The advantage of Plan A is that if it works it could be left unattended all night to charge something. Plan B would require keeping a close eye on the wood stove, which goes through fuel quickly. Not a lot of fuel, but it burns up small sticks pretty fast.
> >
> > In any event, this should prove to be interesting to try.
> >
> > 72, Steve KD1JV
> >
>

8242. Radio oil powerd lamp still on the market in Germanie

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-02 20:31:35 UTC
From: jor
Topic: 8242 Message: 8242

This site sell the LUPO oil powerd radio lamp.
May be also usefull for QRP use

http://www.pelam.de/pdf_datasheet.php?products_id=530

73' Joris PE1KTH

8243. Re: [AT_Sprint] Radio oil powerd lamp still on the market in Germanie

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-02 20:50:03 UTC
From: Stephen Wandling
Topic: 8242 Message: 8243

They have some beautiful products. I would have loved to have had one
of their Alladin lamps when I lived on my boat.

You can see better pictures of the Lamp Radio here:
http://www.pelam.de/product_info.php?manufacturers_id=&products_id=530

72 Stephen VE7NSD

On 02/02/2012 12:31 PM, jor wrote:
> This site sell the LUPO oil powerd radio lamp.
> May be also usefull for QRP use
>
> http://www.pelam.de/pdf_datasheet.php?products_id=530
>
> 73' Joris PE1KTH
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

8244. Re: [AT_Sprint] Radio oil powerd lamp still on the market in Germanie

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-02 21:44:00 UTC
From: Hank Greeb
Topic: 8242 Message: 8244

Stephen:

Have you found specs on the amount of power (voltage and current) the thermisters generate to power the radio? Transistor radios don't take nearly as much voltage or power these daze than did the radios which ran filaments and B+ for vacuum tubes. Still, for about $66 plus shipping, it might be a neat power supply for a novel transceiver. You might be able to charge a secondary cell or two so you could drain more power intermittently while transmitting.

Besides, one could operate nighttime without depleting the energy source!

72/73 de n8xx Hg

On 2/2/2012 3:50 PM, Stephen Wandling wrote:
>
>
> They have some beautiful products. I would have loved to have had one
> of their Alladin lamps when I lived on my boat.
>
> You can see better pictures of the Lamp Radio here:
> http://www.pelam.de/product_info.php?manufacturers_id=&products_id=530
>
> 72 Stephen VE7NSD
>
> On 02/02/2012 12:31 PM, jor wrote:
>> This site sell the LUPO oil powerd radio lamp.
>> May be also usefull for QRP use
>>
>> http://www.pelam.de/pdf_datasheet.php?products_id=530
>>
>> 73' Joris PE1KTH

8245. Re: [AT_Sprint] Radio oil powerd lamp still on the market in Germanie

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-02 21:55:16 UTC
From: Stephen Wandling
Topic: 8242 Message: 8245

I kind of liked the idea of folks sitting around the lantern, listening to the radio together. Reminded me of my childhood.

I didn't find any info on the thermopile's output. I have a few AM/FM radios that seem to operate on 3 VDC, and maybe less. If one needed a bit higher voltage, you could use a DC to DC converter? The lamp may not have enough capacity to power your rig directly, but if it trickle charged a battery, then you might be on the air.

72 Stephen VE7NSD

On 02/02/2012 1:44 PM, Hank Greeb wrote:
> Besides, one could operate nighttime without depleting the energy source!

8246. Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-02 22:14:04 UTC
From: Michael E. Califf,Sr
Topic: 8187 Message: 8246

the following site has a thermal generator for charging USB type units.
www.theepicenter.com
Just a thought,might be good for peripherals.

Mecsr MikeSr AB7OC

8247. Re: [AT_Sprint] Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-02 23:35:58 UTC
From: Stephen Wandling
Topic: 8187 Message: 8247

This site sheds some interesting light on cooling issues and obtaining
an appropriate temperature differential.
> The TEG module used in the Hatsuden Nabe is mounted in a cavity on the
> bottom of the pan. One side of the TEG is exposed to heat from a fire,
> and the other side which is thermally connected to the interior of the
> pan is cooled by water inside the pan. When heated with a wood fueled
> fire, the bottom of the pan will be exposed to temperatures in the
> range of 450 to 550 degrees Celsius. In a few minutes the water inside
> the pan boils and maintains a constant temperature of 100 degrees
> Celsius. This creates a temperature difference of 350 to 450 degrees
> Celsius (662 to 842 degrees Fahrenheit). It is this temperature
> difference that the TEG module uses to generate electricity.
72 Stephen VE7NSD

On 02/02/2012 2:14 PM, Michael E. Califf,Sr wrote:
> the following site has a thermal generator for charging USB type units.
www.theepicenter.com
> Just a thought,might be good for peripherals.
>
> Mecsr MikeSr AB7OC
>

8248. ATS-3b: Low output on 15 and 20m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-03 00:30:22 UTC
From: Ben Pharr
Topic: 8248 Message: 8248

I'm finally getting around to aligning and testing the band modules for my ATS-3b. Most of them check out okay, but 20m is a little low and 15m is a lot low.

The 20m module shows 4.1W output at 12.0V. The turns are already spread around the toroids pretty evenly on LF1 and LF2. I'm thinking I should take a turn off LF1?

The 15m modules shows just 2.4W out at 12.0V. Ditto on the turns spread evenly. LF1 only has 11 turns on it. Would taking one turn off be enough?

Thanks for any suggestions. I'm looking forward to getting this thing on the air.

Thanks,
Ben
WF5N

8249. Re: [AT_Sprint] ATS-3b: Low output on 15 and 20m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-03 01:42:31 UTC
From: cloud runner
Topic: 8248 Message: 8249

My toroids optimized with a lot of compression, not spreading.

Had a lot of fun adjusting the windings!

73, fred - kt5x

I'm finally getting around to aligning and testing the band modules for my ATS-3b. Most of them check out okay, but 20m is a little low and 15m is a lot low.

The 20m module shows 4.1W output at 12.0V. The turns are already spread around the toroids pretty evenly on LF1 and LF2. I'm thinking I should take a turn off LF1?

The 15m modules shows just 2.4W out at 12.0V. Ditto on the turns spread evenly. LF1 only has 11 turns on it. Would taking one turn off be enough?

Thanks for any suggestions. I'm looking forward to getting this thing on the air.

Thanks,
Ben
WF5N

8250. Re: [AT_Sprint] ATS-3b: Low output on 15 and 20m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-03 01:54:38 UTC
From: Stephen Wandling
Topic: 8248 Message: 8250

You might want to start with "ATS-3B Filter Module Details" by KX0R in the Files section. For 20M he recommends that LF1 be distributed evenly on the entire core (Open), but LF2 should be 'Medium' which seems to equate to half way between Open and Tight, which means the turns are all as close together as possible. So you might need to bunch up the turns on LF2 a bit?

Before I started changing the windings, I would make sure I had put on the correct number of turns in the first place. And the correct caps in place.

72 Stephen VE7NSD

On 02/02/2012 4:30 PM, Ben Pharr wrote:
> I'm finally getting around to aligning and testing the band modules
> for my ATS-3b. Most of them check out okay, but 20m is a little low
> and 15m is a lot low.
>
> The 20m module shows 4.1W output at 12.0V. The turns are already
> spread around the toroids pretty evenly on LF1 and LF2. I'm thinking I
> should take a turn off LF1?
>
> The 15m modules shows just 2.4W out at 12.0V. Ditto on the turns
> spread evenly. LF1 only has 11 turns on it. Would taking one turn off
> be enough?
>
> Thanks for any suggestions. I'm looking forward to getting this thing
> on the air.
>
> Thanks,
> Ben
> WF5N
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>
>

8251. Errata . . .

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-03 15:38:56 UTC
From: w1dry
Topic: 8251 Message: 8251

Hi All,

I am a late bloomer here building the 4B but on Page 9 L21 is marked in red but the page is to install capacitors??? Is there any siginficance to this? Thought I had to put 19 capactiors marked red???

Cheers,

W1DRY

8252. Re: [AT_Sprint] Errata . . .

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-03 16:43:31 UTC
From: Steven Weber
Topic: 8251 Message: 8252

The significance is I only have a limited pallet to color parts with, so the same color has to used over in some cases. It should be obvious that the inductor is quite a different part then a capacitor, even though the same color is used to tell it apart from the same kind of part with a different value.

>
> I am a late bloomer here building the 4B but on Page 9 L21 is marked in
> red but the page is to install capacitors??? Is there any siginficance to
> this? Thought I had to put 19 capactiors marked red???
>
>

8253. ATS4 and rotary encoder

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-03 21:17:44 UTC
From: bob_nelson_k2qpn
Topic: 8253 Message: 8253

I am looking for ideas for attaching a rotary encoder to an ATS4 (original). I am thinking of a small box attached with Velcro. Also looking for a suitable 5 contact connector. Any suggestions, especially pictures, appreciated.

73, Bob K2QPN

8254. Re: [AT_Sprint] ATS4 and rotary encoder

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-03 21:32:29 UTC
From: saborns@aol.com
Topic: 8253 Message: 8254

I'm looking for the same thing.

73, Steve K8IDN

In a message dated 2/3/2012 4:17:49 P.M. Eastern Standard Time,
K2QPN@... writes:

I am looking for ideas for attaching a rotary encoder to an ATS4
(original). I am thinking of a small box attached with Velcro. Also looking for a
suitable 5 contact connector. Any suggestions, especially pictures,
appreciated.

73, Bob K2QPN

Yahoo! Groups Links

8255. Re: [AT_Sprint] ATS4 and rotary encoder

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-03 23:14:25 UTC
From: Steven Weber
Topic: 8253 Message: 8255

Well, unfortunately that is not going to be easy to do. You can't just hook up an encoder across the switches and expect it to work - it wouldn't. You need to add another microprocessor between the encoder and the switches in the rig. The extra processor has to determine the direction the encoder is turning and then "push" the approperate switch. It also has to ensure not pushing the switch too long to keep it from going into scan mode, but long enough that the switch closure is detected.

Anyway, I still don't understand why any one would what to change the most effective way to tune a radio in a small box like this anyway.

Steve KD1JV
I'm looking for the same thing.
I am looking for ideas for attaching a rotary encoder to an ATS4 (original). I am thinking of a small box attached with Velcro. Also looking for a suitable 5 contact connector. Any suggestions, especially pictures, appreciated.

8256. Re: Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-04 21:58:52 UTC
From: jgaffke
Topic: 8187 Message: 8256

http://www.huffingtonpost.com/2012/02/03/poop-powered-robot-ecobot_n_1253310.html

I'd probably stick with the TEG

KE7ER

8257. RE: [AT_Sprint] Tuner in a Altoids Tin??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-06 09:08:07 UTC
From: Jake, ON4YZ
Topic: 7457 Message: 8257
Attachments: 2 described; binary payloads are missing from this source WARC

Hello Fred,

I like your modified BLT in mint tin. As I don☐t want to re-invent the wheel, might I ask you to publish the schematic of the Z-match section with the components values you have experimented.

Thanks in advance.

73 de Jake ☐ ON4YZ

De : AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] De la part de Fred Maas
Envoyé : samedi 1 octobre 2011 17:11
À : AT_Sprint@yahoogroups.com
Objet : Re: [AT_Sprint] Tuner in a Altoids Tin??

I have built a slightly modified version of the BLT+ into an Altoids tin. I did not build it from a kit, but from scratch. I used a slightly smaller core. Photo attached.

73, Fred - KT5X

aka WS0TA

----- Original Message -----

From: Johnny Matlock <mailto:jomatlock@...>

To: AT_Sprint@yahoogroups.com

Sent: Saturday, October 01, 2011 9:01 AM

Subject: [AT_Sprint] Tuner in a Altoids Tin??

Has anyone found a wire or z-match tuner that will fit in a Altoids Tin??
Would be a nice match for the litttle rigs!

Thanks 72 73
Johnny AC0BQ

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1321 / Virus Database: 1520/3930 - Release Date: 09/30/11

8258. Opening second half

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-06 13:56:52 UTC
From: Dale Putnam
Topic: 8258 Message: 8258

The Game Warden has graciously agreed to open the second half of the FoxHunt Season in the 80 acre woods.So tomorrow evening, which makes it at 0200z Wednesday, somewhere in the 80 acre woods (3560 +/- 10) you willmay find a pair of sly fox.. KZ5J and WC7S slinking around handing out pelts (Qs) to the deserving Hounds, (that would be you). We will attempt to find a clear spot, to howl at the moon, and we will be expecting answers as we announce.. usually up 1 or 2. Ok.. now.. seriously.. we have a lot of fun with these foxhunts and the fine details can be found easily onhttp://www.qrpfoxhunt.org/winter_rules.htm I will be using a K2, at 5 watts, with a switch selecting one of: a pair of verticals on a steel roof,a 90 ft center fed at 30 ft, or 3 - 360 foot center fed at 50 ft. 0200z Wed. on 3.560 +/- 10 or 7pm Mountain Time Tuesday evening Local time. Bring your best, and spread out a bit, Good luck, May the Prop goddessess smile on us all,

--... ..---
Dale - WC7S in Wy

8259. Re: Tuner in a Altoids Tin??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-06 14:12:52 UTC
From: cloud runner
Topic: 7457 Message: 8259

Hi Jake!

Well, I used the Tayloe SWR indicator kit from Hendricks, just as Hendricks used in the BLT+ kit. The skematic for the tuner is essentially similar to the BLT+ kit, but I used a smaller toroid, a T68-6, or it wouldn't fit in the tin. This seems adequate down through 40 meters. You can view those skematics by downloading the Hendricks manuals.

You can see the layout from the photo, and it is the layout that is key to building the tuner into an Altoids tin. Building into an Altoids tin is the key to making the tuner much lighter than the kit version offered by Hendricks. Potentially, you could buy the Hendricks kit, then build it into a different box. Most of the weight and size of his tuner is a result of the over-sized case.

Another hint. I wired up the toroid taps and the switch outside the box, then mounted it with leads going to other components.

73, Fred - kt5x

Hello Fred,

I like your modified BLT in mint tin. As I don't want to re-invent the wheel, might I ask you to publish the schematic of the Z-match section with the components values you have experimented.

Thanks in advance.

73 de Jake - ON4YZ

8260. U4 missing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-06 14:52:00 UTC
From: w1dry
Topic: 8260 Message: 8260

Hi Steven,

I appear to be missing the 3.3v regulator. Can you send me another one and let me know the cost so I can paypal you. Thanks

72 de Mike
W1DRY

P.S. If you don't have any can you send me the part type and manufacture. thx mw

8261. RE: [AT_Sprint] Opening second half

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-06 17:01:43 UTC
From: Dale Putnam
Topic: 8258 Message: 8261

You know... I am so red faced... I missed the sunrise... with the glow from ... ME!!I am close.. but no banana.. MY apologies.. just delay this announcement until Wed.. and change the date until Thursday evening.. I was one hunt too fast.
I gotta have at least one cup of coffee before sending ANY email out. The schedule shows N0IT and K9JWV up tomorrow evening.. after BOTH my eyes are open, and two cups of coffee.
--... ...--
Dale - WC7S in Wy

Date and time is right. Look for N0IT and K9JWV

0200z Wed. on 3.560 +/- 10 or 7pm Mountain Time Tuesday evening Local time.

8262. Re: [AT_Sprint] U4 missing

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-06 17:53:25 UTC
From: Steven Weber
Topic: 8260 Message: 8262

> I appear to be missing the 3.3v regulator. Can you send me another one
> and let me know the cost so I can paypal you. Thanks
>
Mike,

I know you got one. But they are easy to loose and missing is missing, no matter how. A replacement is on the way. No charge for inexpensive parts which I have spares for...

Steve KD1JV

8263. RE: [AT_Sprint] Opening second half

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-06 18:00:23 UTC
From: James Rodenkirch
Topic: 8258 Message: 8263

Good thing I read this e-mail and didn't just delete it - FORGOT I'm an 80 meter Fox tomorrow night...and I need CT, RI, VT and MA for 80 meter QRP WAS!

Sure hope those four show up..Hi Hi!

Jim R.

To: qfox@yahoogroups.com; qrp-l@...; at_sprint@yahoogroups.com; pfr3_group@yahoogroups.com
From: daleputnam@...
Date: Mon, 6 Feb 2012 10:01:43 -0700
Subject: RE: [AT_Sprint] Opening second half

You know... I am so red faced... I missed the sunrise... with the glow from ... ME!!
I am close.. but no banana.. MY apologies..
just delay this announcement until Wed.. and change the date until Thursday evening..
I was one hunt too fast.

I gotta have at least one cup of coffee before sending ANY email out.

The schedule shows N0IT and K9JWV up tomorrow evening.. after BOTH my eyes are open, and two cups of coffee.

--... ...-- Dale - WC7S in Wy

Date and time is right. Look for N0IT and K9JWV

0200z Wed. on 3.560 +/- 10 or 7pm Mountain Time Tuesday evening Local time.

8264. Calibration Problem....Any Suggestions?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-08 17:31:48 UTC
From: dahupmich
Topic: 8264 Message: 8264

1. I built the rig for 15/17/20/30/40 meters, using the modifications as directed.
2. Initial testing, the display showed the correct band frequencies when bands were selected. Also all the push button switches seemed to work okay.
3. Step one calibration I have 10,000,000 +/- a few HZ displayed on my frequency counter on TP1.

Now the problem

4. Going to the next step in see CAOS and 0000 Hz on the display BUT I can not get any reading for the BFO audio beat note frequency, with even tweaking CT1.
5. I've went back and checked and rechecked the soldering at each IC.
6. I've checked continuity from each pin to next component for all IC.
7. Crystals checked with my homemade crystal checker and all seem okay.
8. I've checked continuity from CT1 to X3 and X3 into U2, all seems in order.
9. I haven't gone past the BFO calibration step. I want this correct first.
10. One continuity check I'm having a problem with is on U8 pin 11 shows to ground, but I do not show ground as I get with pins 3, 6, 8 from that same IC U8.

Any suggestions?

8265. Second Half plus 3 weeks.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-08 18:27:02 UTC
From: Dale Putnam
Topic: 8258 Message: 8265

The Game Warden has graciously agreed to open the second half of the FoxHunt Season in the 80 acre woods (plus three weeks).
So tomorrow evening, which makes it at 0200z Friday, somewhere in the 40 acre woods (7040 +/- 10) you will
may find a pair of sly fox.. KZ5J and WC7S slinking around handing out pelts (Qs) to the deserving Hounds, (that would be you).
We will attempt to find a clear spot, to howl at the full moon, and we will be expecting answers as we announce.. usually up 1 or 2, or maybe down 1, 2, 3, 4, ... ??Listen well.. directions are to be expected. AND if there are no callers, no one being answered, insurance pelts are welcome.

Ok.. now.. seriously.. we have a lot of fun with these foxhunts and the fine details can be found easily on
http://www.qrpfoxhunt.org/winter_rules.htm

I will be using a K2, at 5 watts, with a switch selecting one of:
a pair of verticals on a steel roof,
a 90 ft center fed at 30 ft, or
3 - 360 foot center fed at 50 ft. The verticals or the long wires can be phased, so if the going gets tuff, and the answers are coming slow.. please call a couple times, but if the answers are fast, one call will do nicely.

0200z Wed. on 3.560 +/- 10 or 7pm Mountain Time Tuesday evening Local time.

Bring your best, and spread out a bit,
Good luck, May the Prop goddessess smile on us all,

--... ..---
Dale - WC7S in Wy

8266. Re: [AT_Sprint] Calibration Problem....Any Suggestions?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-08 18:51:26 UTC
From: Steven Weber
Topic: 8264 Message: 8266

Most (or all) of those who couldn't get a BFO frequency reading found bad solder connections on the audio amp. Make sure all the pins (except 8, power +5 and ground pin 4) have 2.5V on them. Also check the little transistor amp which drives the uP port is okay.

The BFO beat note should be good and loud, enough to make the AGC kick in. (we are talking a 4B here, right?) so the volume should start to level out and not increase after the volume control is about 1/2 way up.

Steve

> 1. I built the rig for 15/17/20/30/40 meters, using the modifications as
> directed.
> 2. Initial testing, the display showed the correct band frequencies when
> bands were selected. Also all the push button switches seemed to work
> okay.
> 3. Step one calibration I have 10,000,000 +/- a few HZ displayed on my
> frequency counter on TP1.
>
> Now the problem
>
> 4. Going to the next step in see CAOS and 0000 Hz on the display BUT I can
> not get any reading for the BFO audio beat note frequency, with even
> tweaking CT1.
> 5. I've went back and checked and rechecked the soldering at each IC.
> 6. I've checked continuity from each pin to next component for all IC.
> 7. Crystals checked with my homemade crystal checker and all seem okay.
> 8. I've checked continuity from CT1 to X3 and X3 into U2, all seems in
> order.
> 9. I haven't gone past the BFO calibration step. I want this correct
> first.
> 10. One continuity check I'm having a problem with is on U8 pin 11 shows
> to ground, but I do not show ground as I get with pins 3, 6, 8 from that
> same IC U8.
>
> Any suggestions?

8267. Re: FS:ATS3B.1 and rotary encoder kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-10 01:00:11 UTC
From: ns7eart
Topic: 5080 Message: 8267

WILL IT TUNE UP OR DOWN ANY FASTER THEN WITH THE BUTTOMNS?

--- In AT_Sprint@yahoogroups.com, "ns5u" <jaswarb@...> wrote:
>
>
> > Hi Jim,
> >
> > If it would help you any... I'll keep the "return it for a tuneup" option in place for the new buyer... if they want it...
>
> > Dale - WC7S in Wy
>
>
>
> Different radio Dale. No intentions of letting go of the one you are building.
>
> From the time I built my ATS3b last year until now my hands have just deteriorated too much to expect good results.
>
> tnx
>
> Jim
>

8268. RE: [AT_Sprint] Re: FS:ATS3B.1 and rotary encoder kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-10 03:27:38 UTC
From: Dale Putnam
Topic: 5080 Message: 8268

nope.. the speed of tuning is a matter of the processor.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: ns7eart@...
Date: Fri, 10 Feb 2012 01:00:11 +0000
Subject: [AT_Sprint] Re: FS:ATS3B.1 and rotary encoder kits

WILL IT TUNE UP OR DOWN ANY FASTER THEN WITH THE BUTTOMNS?

--- In AT_Sprint@yahoogroups.com, "ns5u" <jaswarb@...> wrote:

>

>

> > Hi Jim,

> >

> > If it would help you any... I'll keep the "return it for a tuneup" option in place for the new buyer... if they want it...

>

> > Dale - WC7S in Wy

>

>

>

> Different radio Dale. No intentions of letting go of the one you are building.

>

> From the time I built my ATS3b last year until now my hands have just deteriorated too much to expect good results.

>

> tnx

>

> Jim

>

8269. Finally done

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-11 01:22:12 UTC
From: w1dry
Topic: 8269 Message: 8269

Hi all

Well sorry it took so long to get going but the ATS 4B is finished and worked right out of the gate. Thanks to Steven KD1JV for sending the 3.3 volt regulator a it makes the radio work much better!!

Hope to catch you all on the bands . . .

Cheers es 72 de

Mike
W1DRY

8270. Re: [AT_Sprint] Finally done

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-11 01:45:18 UTC
From: cloud runner
Topic: 8269 Message: 8270

Congratulations, Mike! Know first hand how exciting it is when the thing wakes up and hears stuff!!!!

Cu on the bands,

73 Fred - kt5x

Hi all

Well sorry it took so long to get going but the ATS 4B is finished and worked right out of the gate. Thanks to Steven KD1JV for sending the 3.3 volt regulator a it makes the radio work much better!!

Hope to catch you all on the bands . . .

Cheers es 72 de

Mike
W1DRY

8271. Re: [AT_Sprint] Finally done

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-11 02:03:37 UTC
From: Johnny Matlock
Topic: 8269 Message: 8271

Good Job Mike
Hope you like the little rig as much as I do mine!
I have been working the fox hunts with it and it seems to have great ears.
72
Johnny Ac0BQ

On Fri, Feb 10, 2012 at 7:22 PM, w1dry <w1dry@...> wrote:

> **
>
>
> Hi all
>
> Well sorry it took so long to get going but the ATS 4B is finished and
> worked right out of the gate. Thanks to Steven KD1JV for sending the 3.3
> volt regulator a it makes the radio work much better!!
>
> Hope to catch you all on the bands . . .
>
> Cheers es 72 de
>
> Mike
> W1DRY
>
>
>

8272. NAQCC Sprint Tuesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-11 17:45:22 UTC
From: NAQCC
Topic: 2905 Message: 8272

NAQCC Sprint Tuesday night!

Our February sprint is this coming Tuesday evening local time (Feb 14, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Wednesday Feb 15, 0130-0330Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201202.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX. A Certificate for top score in the GAIN antenna category. Finally there is one more award - a certificate to the highest score from a first-time participant.

Prizes: A prize of a set of bug/paddle handles or a K1/K2 knob insert donated by master woodworker Gregg WB8LZG is awarded for each sprint to the winner of a random drawing among all participants. Previous winners are not eligible.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 5,880+ members in: All 50 States - 9 VE Provinces - 90 Countries. Just sign up on the NAQCC website (http://naqcc.info/) and you will receive a handsome certificate, with your membership number which is good for life. A great way to start the New Year!!

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

8273. Re: Finally done

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-13 01:11:32 UTC
From: w1dry
Topic: 8269 Message: 8273

Hi Johnny,

I made a mode to the radio and replaced all of the yellow C0G thru hole capacitors for the input filter and output filter and replaced them with SMT C0G equivelents . . . It works GREAT!! the radio is HOT and puts out a minimum of 4 watts on all bands. What a success story!!!

Cheers,

Mike Wyman
W1DRY

--- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@...> wrote:
>
> Good Job Mike
> Hope you like the little rig as much as I do mine!
> I have been working the fox hunts with it and it seems to have great ears.
> 72
> Johnny Ac0BQ
>
> On Fri, Feb 10, 2012 at 7:22 PM, w1dry <w1dry@...> wrote:
>
> > **
> >
> >
> > Hi all
> >
> > Well sorry it took so long to get going but the ATS 4B is finished and
> > worked right out of the gate. Thanks to Steven KD1JV for sending the 3.3
> > volt regulator a it makes the radio work much better!!
> >
> > Hope to catch you all on the bands . . .
> >
> > Cheers es 72 de
> >
> > Mike
> > W1DRY
> >
> >
> >
>

8274. Re: [AT_Sprint] Re: Finally done

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-13 02:54:48 UTC
From: Johnny Matlock
Topic: 8269 Message: 8274

Good Job Mike
Glad you got it working. Like I said I really like mine,it's s cool little box.
72
Johnny AC0BQ

On Sun, Feb 12, 2012 at 7:11 PM, w1dry <w1dry@...> wrote:

> **
>
>
> Hi Johnny,
>
> I made a mode to the radio and replaced all of the yellow C0G thru hole
> capacitors for the input filter and output filter and replaced them with
> SMT C0G equivelents . . . It works GREAT!! the radio is HOT and puts out a
> minimum of 4 watts on all bands. What a success story!!!
>
> Cheers,
>
> Mike Wyman
> W1DRY
>
> --- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@...> wrote:
> >
> > Good Job Mike
> > Hope you like the little rig as much as I do mine!
> > I have been working the fox hunts with it and it seems to have great
> ears.
> > 72
> > Johnny Ac0BQ
> >
> > On Fri, Feb 10, 2012 at 7:22 PM, w1dry <w1dry@...> wrote:
> >
> > > **
> > >
> > >
> > > Hi all
> > >
> > > Well sorry it took so long to get going but the ATS 4B is finished and
> > > worked right out of the gate. Thanks to Steven KD1JV for sending the
> 3.3
> > > volt regulator a it makes the radio work much better!!
> > >
> > > Hope to catch you all on the bands . . .

> > >
> > > Cheers es 72 de
> > >
> > > Mike
> > > W1DRY
> > >
> > >
> > >
> >
>
>
>

8275. Re: [AT_Sprint] Re: Finally done

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-13 18:35:58 UTC
From: WA0ITP
Topic: 8269 Message: 8275

Excellent mod Mike,

I'll try that on my next ATSx

Thanx

Back to the bench, Winter's too valuable to waste.
I love this radio stuff !
72, 73 Terry, WA?ITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "w1dry" <w1dry@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Sunday, February 12, 2012 7:11 PM
Subject: [AT_Sprint] Re: Finally done

| Hi Johnny,
|
|
| I made a mode to the radio and replaced all of the yellow C0G thru
hole capacitors for the input filter and output filter and replaced
them with SMT C0G equivelents . . . It works GREAT!! the radio is
HOT and puts out a minimum of 4 watts on all bands. What a success
story!!!
|
|
| Cheers,
|
| Mike Wyman
| W1DRY
|
| --- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@...>
wrote:
| >
| > Good Job Mike
| > Hope you like the little rig as much as I do mine!
| > I have been working the fox hunts with it and it seems to have
great ears.
| > 72
| > Johnny Ac0BQ
| >
| > On Fri, Feb 10, 2012 at 7:22 PM, w1dry <w1dry@...> wrote:

| >
| > > **
| > >
| > >
| > > Hi all
| > >
| > > Well sorry it took so long to get going but the ATS 4B is
finished and
| > > worked right out of the gate. Thanks to Steven KD1JV for sending
the 3.3
| > > volt regulator a it makes the radio work much better!!
| > >
| > > Hope to catch you all on the bands . . .
| > >
| > > Cheers es 72 de
| > >
| > > Mike
| > > W1DRY
| > >
| > >
| > >
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| ---
|
| Yahoo! Groups Links
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8276. ultra-lyte

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-14 15:53:59 UTC
From: pegasus
Topic: 8276 Message: 8276
Attachments: 1 described; binary payloads are missing from this source WARC

In the spirit that one idea leads to others, here are recent tweaks to my Ultra-Lyte trail radio system.

Tweaks to the EFHW tuner (by KI6J) ...

Overcame its reluctance to tune a 15 meter end-fed halfwave by disconnecting the smaller of the two varicon sections. This reduces the minimum capacitance putting 15 mtr within tuning range. A little fussing with the turns on the toroid and it tunes all design bands, 15 through 40, even without the 50 PF varicon section.

Created a male RCA jack from a plug and a 3/8 inch nut so that the tuner plugs directly into the ATS3B (or ATS4B) without an adaptor or intervening piece of coax. This reduces loss, weight and set up time.

The heart of the set-up is the ATS3B which has been carefully adjusted to optimize output. There is a sweet spot balancing the two toroids that achieves high output at low curren. I believe that I was seeing efficiencies of 80% and better if power drawn by the receiver and driver are subtracted from the total current.

At 12.1 volts (I generally operate at 11.5 volts)...

Band output Ammeter

80 5.0 W 630 mA
40 5.3 W 710 mA
30 5.6 W 790 mA
20 5.5 W 797 mA
17 4.9 W 716 mA
15 5.1 W 770 mA

On the DC end, I replaced the jack on the 3S LiPO batteries with Anderson powerpoles. They are more convenient and lighter than the stock 4 mm banana plugs. I rebuilt my voltage controller switch with powerpoles. It is simply a SPDT mini-toggle with center off plus diodes to use their voltage dropping characteristic. This provides three voltage levels, through 4 diodes for tuning up, one diode for operating when battery is fully charged to 12.5 volts, and straight through when battery is in its normal operating range of 11.1 to 11.6 volts.

Created an adaptor that goes from the ATS3B DC jack directly to powerpole eliminating a cable.

The vertical alignment attaches simply with rubber bands to the fishing pole EFHW antenna support. Here is what it looks like ready to be attached to the pole ...

Spring and trail running season comes soon!

72, Fred - KT5X (aka WS0TA)

8277. Re: Finally done

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-14 18:54:46 UTC
From: omehegan
Topic: 8269 Message: 8277

For the inexperienced people like me... what was the benefit of this mod? I don't get it.

--- In AT_Sprint@yahoogroups.com, "w1dry" <w1dry@...> wrote:
>
> Hi Johnny,
>
>
> I made a mode to the radio and replaced all of the yellow C0G thru hole capacitors for the input filter and output filter and replaced them with SMT C0G equivelents . . . It works GREAT!! the radio is HOT and puts out a minimum of 4 watts on all bands. What a success story!!!
>
>
> Cheers,
>
> Mike Wyman
> W1DRY
>
> --- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@> wrote:
> >
> > Good Job Mike
> > Hope you like the little rig as much as I do mine!
> > I have been working the fox hunts with it and it seems to have great ears.
> > 72
> > Johnny Ac0BQ
> >
> > On Fri, Feb 10, 2012 at 7:22 PM, w1dry <w1dry@> wrote:
> >
> > > **
> > >
> > >
> > > Hi all
> > >
> > > Well sorry it took so long to get going but the ATS 4B is finished and
> > > worked right out of the gate. Thanks to Steven KD1JV for sending the 3.3
> > > volt regulator a it makes the radio work much better!!
> > >
> > > Hope to catch you all on the bands . . .
> > >
> > > Cheers es 72 de
> > >
> > > Mike
> > > W1DRY
> > >
> > >

> > >
> >
>

8278. Re: [AT_Sprint] Re: Finally done

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-14 19:57:48 UTC
From: w1dry@earthlink.net
Topic: 8269 Message: 8278

Hi There

?

Well there isn't much difference except for some eye strain and placement adjustments.? The electronics of the filter is still the same.? It was just something different to do with the ATS4 and since it is my second one I wanted to try something unique.? It would seem to me if you are building an SMT (surface mount technology) board,?adding thru hole parts didn't appeal to me.? Otherwise the circuit is just the same.? It sure is neater on the board though . . .

?

?

Cheers,

?

Michael Wyman

W1DRY

-----Original Message-----
From: omehegan
Sent: Feb 14, 2012 11:54 AM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Finally done

?

For the inexperienced people like me... what was the benefit of this mod? I don't get it.

--- In AT_Sprint@yahoogroups.com, "w1dry" wrote:
>
> Hi Johnny,
>
>
> I made a mode to the radio and replaced all of the yellow C0G thru hole capacitors for the input filter and output filter and replaced them with SMT C0G equivelents . . . It works GREAT!! the radio is HOT and puts out a minimum of 4 watts on all bands. What a success story!!!
>
>;
> Cheers,
>
> Mike Wyman
> W1DRY

>
> --- In AT_Sprint@yahoogroups.com, Johnny Matlock wrote:
> >
> > Good Job Mike
> > Hope you like the little rig as much as I do mine!
> > I have been working the fox hunts with it and it seems to have great ears.
> > 72
> > Johnny Ac0BQ
> >
> > On Fri, Feb 10, 2012 at 7:22 PM, w1dry wrote:
> >
> > > **
> > >
> > >
> > > Hi all
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> > > Well sorry it took so long to get going but the ATS 4B is finished and
> > > worked right out of the gate. Thanks to Steven KD1JV for sending the 3.3
> > > volt regulator a it makes the radio work much better!!
> > >
> > > Hope to catch you all on the bands . . .
> > >
> > > Cheers es 72 de
> > >
> > > Mike
> > > W1DRY
> > >
> > >
> > >
> >
>

8279. Re: [AT_Sprint] Re: Finally done

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-14 20:10:14 UTC
From: jaevans@pcisys.net
Topic: 8269 Message: 8279

You should post some photos of the SMT boards :)

72 - john - n0hj

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

8280. RE: [AT_Sprint] Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 02:37:59 UTC
From: Ken Lotts
Topic: 8140 Message: 8280

Steven,

You may already have seen this but if not, K1EL has published some of his keyer source code on his web site at http://k1el.tripod.com/freeware.html It is Pic ASM code but he does a great job documenting.

Ken Lotts
aa7jc

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com]On Behalf Of Steven
Sent: Sunday, January 22, 2012 1:49 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Iambic keying

I've been looking into the Iambic keying issue and decided the best way to find out the proper way for it to work would be to go back to the source which set the standard. That would be the Curtis 8044ABM chip. Google quickly found the original application note written by John Curtis himself. This is what it has to say about A and B modes:

For example, (iambic A mode) if you squeeze the key paddles, leading slightly with the thumb (dot paddle), you can easily produce the Morse "period", "di dah di dah di dah". Some other characters produced by releasing the squeeze earlier, are the "AR" (di dah di dah dit) or the "AA" (di dah di dah), the "R" (di dah dit) or the "A" (di dah). By starting the squeeze with a dash, we can produce characters like "N", "K" and "C". By squeezing during a letter, we can make other characters like "L", "Q" and so forth. Squeeze keying is fast and easy since it minimizes finger and wrist motion.

Type "B" iambic

The procedure described above is typical of what we call iambic type "A" or the original Curtis method. In type "B" iambic, a squeeze released during an element (dot or dash) will cause another alternate element to follow the one being produced.

For example, it you squeeze to produce a "period", then you must release during the third dit (or the space following). The last dah will automatically transmit. For another example, to make a "C", you must release during the second dah (or the space following) and the last dit will automatically transmit. Presumably, this further reduces the effort to produce some letters. But at high speeds, the necessity to release during the (very short) dit period may be difficult. The window for action on the "B" type is one-half that on the "A" type.

Okay, now we know how B mode is suppost to work. A squeeze released during an element will produce an opposite trailing element.

Therefore, in B mode, to send an A or N by squeezing both paddles requires releasing the paddles as soon as the first element starts sending. In order to avoid sending a K or R instead, you need to be really quick, so one should avoid squeeze keying for making A's or N's.

Both my keyer and the keyer in the Ten-Tec Argo V work as above, as does a K1EL keyer I have. However, the K1EL keyer seems to have slightly different timing. The paddles have to be squeezed farther into the dot or dash before they are released to get the alternate element to send then my keyer or the Ten-Tec does. I can see how that can help avoid mistakes at the higher speeds.

Okay, one last issue. A vs B. On closer inspection, it turns out there is basically no difference between A and B modes in my implementation. They are both B mode. I said I look for both paddles closed at any time to set the extra element flag, but that is not the case. It is only tested at the end of an element being sent. This condition is already effectively tested for during the sending of an element by looking to see if the other paddle is close and if it is, setting a flag to produce that element. Checking again for both paddles closed at the end of sending an element is redunent and is the only difference between A and B modes in my implementation. I always thought B mode was more difficult to code for, but it looks like A mode is more tricky.

I'll tweak the timing on setting the flag for opposite element generation for squeeze keying and see if that helps and try to see if I can do a proper A implentation which doesn't result in dropping elements instead.

Steve KD1JV

8281. Pix posted

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 02:37:23 UTC
From: w1dry
Topic: 8281 Message: 8281

Hi all,

Some people have asked me to post the pix of the radio in the photo section so I have. Note the modified band artwork for the switches. I need to take the radio apart to show the SMT filter components on the bottom of the board. This means de soldering the RF and power connectors so I will do that this weekend.

Enjoy

de Mike
W1DRY

8282. Re: [AT_Sprint] Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 03:02:40 UTC
From: Steven Weber
Topic: 8140 Message: 8282

Well, that's great, but I can't make heads or tails out of PIC code. They do things in a way no one else does...

Steve
Steven,

You may already have seen this but if not, K1EL has published some of his keyer source code on his web site at http://k1el.tripod.com/freeware.html
It is Pic ASM code but he does a great job documenting.

Ken Lotts
aa7jc

8283. QSK?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 04:20:56 UTC
From: AA9GG
Topic: 8283 Message: 8283

I was looking at the schematic trying to follow the signal path. I see a connection from R12/S9-B labeled QSK in the filter section. Where exactly does that go? I see no other label to match it with on either the RX or TX schematics.

just curious.....

73 de Paul, AA9GG

8284. Re: [AT_Sprint] QSK?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 04:52:37 UTC
From: Steven Weber
Topic: 8283 Message: 8284

It goes to RX IN Where else could it go?
KD1JV

>I was looking at the schematic trying to follow the signal path. I see a
>connection from R12/S9-B labeled QSK in the filter section. Where exactly
>does that go? I see no other label to match it with on either the RX or TX
>schematics.
>

8285. Re: [AT_Sprint] QSK?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 05:06:29 UTC
From: Paul Mateer
Topic: 8283 Message: 8285

Duh...I think it's old age. Thx Steve

On Tue, Feb 14, 2012 at 10:52 PM, Steven Weber <steve.kd1jv@...>wrote:

> **
>
>
> It goes to RX IN Where else could it go?
> KD1JV
>
>
> >I was looking at the schematic trying to follow the signal path. I see a
> >connection from R12/S9-B labeled QSK in the filter section. Where exactly
> >does that go? I see no other label to match it with on either the RX or
> TX
> >schematics.
> >
>
>
>

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8286. Buttons Failing on ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 05:14:37 UTC
From: radio_kx0r
Topic: 8286 Message: 8286

I really like using my ATS-3B for portable work. I've used mine many times, from some great sites.

However, lately I'm having trouble with my frequency tuning buttons - they make contact sometimes, sometimes not, and they're getting worse. It seems to take a lot of pressure to get the buttons to make contact. They hurt my fingers.

This is a surprising problem, because my rig has mostly been kept in a very dry environment.

Has anyone else here had issues with the buttons on your ATS rig? Were you able to fix the buttons? Is there a recommended contact cleaner that you know works - not something you think might work...did you really use it and does it work? Did it keep working?

I don't really want to replace the buttons if there's a better answer.

Some cleaners can damage plastics, and some work better than others. Please answer if you actually know what to use.

Thanks

George Carey Fuller
KX0R

8287. Re: [AT_Sprint] Buttons Failing on ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 05:21:11 UTC
From: lmlangenfeld tds.net
Topic: 8286 Message: 8287

George:
**
*Yep, same thing here. Weird, because they are rated for hundreds of thousands of cycles. Unfortunately, they will ultimately fail altogether, so the only thing you can do is change 'em out. (Dale -- WC7S -- had some spares, and was kind enough to do the work for me.) *
**
Maybe a bad batch? Probably best to change out all four while you're at it.
**
*Mark -- WA9ETW

*
On Tue, Feb 14, 2012 at 11:14 PM, radio_kx0r <careyfuller@...>wrote:

> **
>
>
> I really like using my ATS-3B for portable work. I've used mine many
> times, from some great sites.
>
> However, lately I'm having trouble with my frequency tuning buttons - they
> make contact sometimes, sometimes not, and they're getting worse. It seems
> to take a lot of pressure to get the buttons to make contact. They hurt my
> fingers.
>
> This is a surprising problem, because my rig has mostly been kept in a
> very dry environment.
>
> Has anyone else here had issues with the buttons on your ATS rig? Were you
> able to fix the buttons? Is there a recommended contact cleaner that you
> know works - not something you think might work...did you really use it and
> does it work? Did it keep working?
>
> I don't really want to replace the buttons if there's a better answer.
>
> Some cleaners can damage plastics, and some work better than others.
> Please answer if you actually know what to use.
>
> Thanks
>
> George Carey Fuller
> KX0R
>
>

>

8288. Re: Buttons Failing on ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 06:55:08 UTC
From: Vojtech
Topic: 8286 Message: 8288

The original push buttons on Steve's ATS-3b prototype are fine. But I damaged one with a soldering iron and the replaced switch is failing the same way.

I think the only way to fix it is to replace the switches. The switches are not all created equal.

73, Vojtech OK1IAK

8289. Re: Buttons Failing on ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 11:58:48 UTC
From: Vojtech
Topic: 8286 Message: 8289

BTW, I have the same problem with Elecraft T1 auto tuner. One of the buttons work unreliably, which is a real pain if the button has different function on short click and on hold.

Vojtech

--- In AT_Sprint@yahoogroups.com, "Vojtech" <bubnikv@...> wrote:
>
> The original push buttons on Steve's ATS-3b prototype are fine. But I damaged one with a soldering iron and the replaced switch is failing the same way.
>
> I think the only way to fix it is to replace the switches. The switches are not all created equal.
>
> 73, Vojtech OK1IAK
>

8290. RE: [AT_Sprint] Re: Buttons Failing on ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 13:38:19 UTC
From: Dale Putnam
Topic: 8286 Message: 8290

I've had what I figured to be premature failure also, then.... I found that the switches are designed for sideways pressure, NOT directly down...Steve mentioned that... and it is true for the switches I've replaced with too. I had to relearn... "PushButton"... always had pushed straight... not these. That breaks them.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: bubnikv@...
Date: Wed, 15 Feb 2012 11:58:48 +0000
Subject: [AT_Sprint] Re: Buttons Failing on ATS-3B

BTW, I have the same problem with Elecraft T1 auto tuner. One of the buttons work unreliably, which is a real pain if the button has different function on short click and on hold.

Vojtech

--- In AT_Sprint@yahoogroups.com, "Vojtech" <bubnikv@...> wrote:

>

> The original push buttons on Steve's ATS-3b prototype are fine. But I damaged one with a soldering iron and the replaced switch is failing the same way.

>

> I think the only way to fix it is to replace the switches. The switches are not all created equal.

>

> 73, Vojtech OK1IAK

>

8291. Re: Buttons Failing on ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 14:14:56 UTC
From: ve3wmb
Topic: 8286 Message: 8291

Carey :

What may give you some short term relief (until you can replace the buttons) is to try pushing them sideways rather than straight down. You may find that this helps to make a connection and it will certainly be easier be easier on the fingers.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "radio_kx0r" <careyfuller@...> wrote:
>
> I really like using my ATS-3B for portable work. I've used mine many times, from some great sites.
>
> However, lately I'm having trouble with my frequency tuning buttons - they make contact sometimes, sometimes not, and they're getting worse. It seems to take a lot of pressure to get the buttons to make contact. They hurt my fingers.
>

8292. Re: [AT_Sprint] Iambic keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 14:18:06 UTC
From: Steven Carr
Topic: 8140 Message: 8292

Most of a keyer's operation is well known, except for some particular timing details that are only needed when actually implementing a keyer. I sent out an email (1/20/2012) with my findings based on the Accu-Keyer, an iambic B keyer circuit which I had loaded into a circuit simulator in order to study. In case it got lost in all the email activity I'll repeat the one paragraph from that email that best summarizes these iambic B timing details...

At any time while one element or its trailing space is active, a momentary input (however brief) on the opposite element's paddle will be queued and sent immediately after the current element and trailing space are done. Also...the paddle input for the current element and trailing space may be held until the instant just prior to the end of that trailing space and that element won't be repeated.

(Note that this implies interrupt driven inputs are best, however the algorithm for the keyer chip from http://vk1od.net/module/pik/pik.htm scans by polling every "2ms at 10WPM". Skip down to the Algorithm section on that web page.)

Steven Carr (ae4yq)

On 02/14/2012 10:02 PM, Steven Weber wrote:
>
> Well, that's great, but I can't make heads or tails out of PIC code.
> They do things in a way no one else does...
> Steve
>
> Steven,
> You may already have seen this but if not, K1EL has published
> some of his keyer source code on his web site at
> http://k1el.tripod.com/freeware.html
> It is Pic ASM code but he does a great job documenting.
> Ken Lotts
> aa7jc
>
>

8293. RE: [AT_Sprint] Buttons Failing on ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 14:48:04 UTC
From: Dale Putnam
Topic: 8286 Message: 8293

I do have a supply on hand, if they are needed. Had to order a minimum...

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: lmlangenfeld@...
Date: Tue, 14 Feb 2012 23:21:11 -0600
Subject: Re: [AT_Sprint] Buttons Failing on ATS-3B

George:

Yep, same thing here. Weird, because they are rated for hundreds of thousands of cycles. Unfortunately, they will ultimately fail altogether, so the only thing you can do is change 'em out. (Dale -- WC7S -- had some spares, and was kind enough to do the work for me.)

Maybe a bad batch? Probably best to change out all four while you're at it.

Mark -- WA9ETW

On Tue, Feb 14, 2012 at 11:14 PM, radio_kx0r <careyfuller@comcast.net> wrote:

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However, lately I'm having trouble with my frequency tuning buttons - they make contact sometimes, sometimes not, and they're getting worse. It seems to take a lot of pressure to get the buttons to make contact. They hurt my fingers.

This is a surprising problem, because my rig has mostly been kept in a very dry environment.

Has anyone else here had issues with the buttons on your ATS rig? Were you able to fix the buttons? Is there a recommended contact cleaner that you know works - not something you think might work...did you really use it and does it work? Did it keep working?

I don't really want to replace the buttons if there's a better answer.

Some cleaners can damage plastics, and some work better than others. Please answer if you actually know what to use.

Thanks

George Carey Fuller
KX0R

8294. Re: [AT_Sprint] Buttons Failing on ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-15 16:10:08 UTC
From: Steve
Topic: 8286 Message: 8294

I've never thought to use a contact cleaner as I think the contacts are basically sealed under the little "blister" that is the dome of the switch. Basically the blister "oil cans" (flexes like the bottom of an old-time metal oil can with spout) to make contact then springs back. I'm not sure any contact cleaner can penetrate.

Steve
aa8af

On Feb 15, 2012, at 12:14 AM, radio_kx0r wrote:

>
> Has anyone else here had issues with the buttons on your ATS rig? Were you able to fix the buttons? Is there a recommended contact cleaner that you know works - not something you think might work...did you really use it and does it work?

8295. Re: ATS4 and rotary encoder

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-18 00:34:59 UTC
From: Petr
Topic: 8253 Message: 8295

Hi all,

this is exactly solved in the kit offered here:

http://diy4fun.blogspot.com/2010/01/rotary-encoder-for-ats-transceiver.html

Easy to assy and works for the first time.

The connection between the ATS and encoder kit is done by flat cable and appropriate connectors. I am using the 9pins cannon as it is bullet proof using the screws to fix the cable in its position.

The encoder is perfect for home operation on the table where it will improve the tuning operation comfort. Easy tuning like big radios with tuning state and scanning indication is nice feature. Of course the kit is not used on portable where the most advantage of the rig is simplicity and t-shirt size with all-in-one basic functions.

Thank You Steve for excellent rig and great support.

(just QBSA reloading could be welcomed by thousands users I guess :)

73 - Petr, OK1RP

--- In AT_Sprint@yahoogroups.com, saborns@... wrote:
>
> I'm looking for the same thing.
>
> 73, Steve K8IDN
>
>
>
> In a message dated 2/3/2012 4:17:49 P.M. Eastern Standard Time,
> K2QPN@... writes:
>
> I am looking for ideas for attaching a rotary encoder to an ATS4
> (original). I am thinking of a small box attached with Velcro. Also looking for a
> suitable 5 contact connector. Any suggestions, especially pictures,
> appreciated.
>
> 73, Bob K2QPN
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

8296. Re: [AT_Sprint] Re: ATS4 and rotary encoder

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-18 02:27:03 UTC
From: Steven Bornstein
Topic: 8253 Message: 8296

Petr,

How can I order one for my ATS-4? Can I Paypal you the payment?

73, Steve K8IDN

Sent from my iPad

On Feb 17, 2012, at 19:34, "Petr" <indians@...> wrote:

> Hi all,
>
> this is exactly solved in the kit offered here:
>
> http://diy4fun.blogspot.com/2010/01/rotary-encoder-for-ats-transceiver.html
>
> Easy to assy and works for the first time.
>
> The connection between the ATS and encoder kit is done by flat cable and appropriate connectors. I am using the 9pins cannon as it is bullet proof using the screws to fix the cable in its position.
>
> The encoder is perfect for home operation on the table where it will improve the tuning operation comfort. Easy tuning like big radios with tuning state and scanning indication is nice feature. Of course the kit is not used on portable where the most advantage of the rig is simplicity and t-shirt size with all-in-one basic functions.
>
> Thank You Steve for excellent rig and great support.
>
> (just QBSA reloading could be welcomed by thousands users I guess :)
>
> 73 - Petr, OK1RP
>
>
> --- In AT_Sprint@yahoogroups.com, saborns@... wrote:
>>
>> I'm looking for the same thing.
>>
>> 73, Steve K8IDN
>>
>>
>>
>> In a message dated 2/3/2012 4:17:49 P.M. Eastern Standard Time,
>> K2QPN@... writes:
>>
>> I am looking for ideas for attaching a rotary encoder to an ATS4

>> (original). I am thinking of a small box attached with Velcro. Also looking for a
>> suitable 5 contact connector. Any suggestions, especially pictures,
>> appreciated.
>>
>> 73, Bob K2QPN
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>> Yahoo! Groups Links
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> Yahoo! Groups Links
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8297. RE: [AT_Sprint] Re: ATS4 and rotary encoder

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-18 04:02:24 UTC
From: Dale Putnam
Topic: 8253 Message: 8297

The flat connector, "computer cable and connector" works great... and the angled connector, mounted on the side of the altoids tin, works fine, needs only a little protection while hauling it around.. to protect the pins.. but that is easy to do, with a slightly modified socket, snip the connections off the bottom and slip on the exposed pins, let the jack take the hits. The encoder goes in a nifty tin that Miroslav... or was it Petr.. made... that works very cool. With this set up.. the cable lets you put the radio... over ther... keep the encoder close.. and have more desk space for the key, and log book. Very nifty and spiffy.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: saborns@...
Date: Fri, 17 Feb 2012 21:27:03 -0500
Subject: Re: [AT_Sprint] Re: ATS4 and rotary encoder

Petr,

How can I order one for my ATS-4? Can I Paypal you the payment?

73, Steve K8IDN

Sent from my iPad

On Feb 17, 2012, at 19:34, "Petr" <indians@...> wrote:

> Hi all,

>

> this is exactly solved in the kit offered here:

>

> http://diy4fun.blogspot.com/2010/01/rotary-encoder-for-ats-transceiver.html

>

> Easy to assy and works for the first time.

>

> The connection between the ATS and encoder kit is done by flat cable and appropriate connectors. I am using the 9pins cannon as it is bullet proof using the screws to fix the cable in its position.

>

> The encoder is perfect for home operation on the table where it will improve the tuning operation comfort. Easy tuning like big radios with tuning state and scanning indication is nice feature. Of course the kit is not used on portable where the most advantage of the rig is simplicity and t-shirt size with all-in-one basic functions.

>

> Thank You Steve for excellent rig and great support.

>

> (just QBSA reloading could be welcomed by thousands users I guess :)

>

> 73 - Petr, OK1RP

>

>

> --- In AT_Sprint@yahoogroups.com, saborns@... wrote:

>>

>> I'm looking for the same thing.

>>

>> 73, Steve K8IDN

>>

>>

>>

>> In a message dated 2/3/2012 4:17:49 P.M. Eastern Standard Time,

>> K2QPN@... writes:

>>

>> I am looking for ideas for attaching a rotary encoder to an ATS4

>> (original). I am thinking of a small box attached with Velcro. Also looking for a

>> suitable 5 contact connector. Any suggestions, especially pictures,

>> appreciated.

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>> 73, Bob K2QPN

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>> Yahoo! Groups Links

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> Yahoo! Groups Links

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8298. new ATS ... things I'd like to see

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-18 16:09:18 UTC
From: cloud runner
Topic: 8298 Message: 8298

a thought for Steve consider ...

* I sure do prefer Anderson powerpole DC jack to others. I like how it might slide out, not having to be unsoldered to dismantle the rig. I like how it can mate up with other things in the shack.

* The nature of the radio likes reduced voltage during tune up. How about a "tune" mode that automatically reduces input voltage to something like 9 volts. It could be done in any of several ways I think, and done so much smaller, simpler, and lighter than doing it with an outboard attachment.

* I NEVER use the present tune mode of "key down." Never. I much prefer to touch the dit paddle giving fifty percent duty cycle while tuning up. Suggest this in "tune" mode rather than key down, or, if others prefer a solid key down, a way for it to be optional.

The ultimate way of doing it; once "TUNE mode" is selected, voltage is reduced to 9 volts or less, and then, a touch of the dit paddle causes dits to be sent hands free until the dit paddle is touched again.

* I think part of the game plan is two band radio, bands operator chosen, built on the basic board. But plug-in itself isn't a problem, it is band changing in the field.

therefore, how about the band module continuing to plug-in, but a two band plug-in. this allows switched band changing in field operation. One might have more than one two-band plug-in module, say, a daytime plug-in of 15/20 and a night time plug-in of say, 40/80. that would be a truly versatile and convenient way to do it...

72, Fred - kt5x (aka WS0TA)

8299. Re: [AT_Sprint] new ATS ... things I'd like to see

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-18 19:47:07 UTC
From: Steven Weber
Topic: 8298 Message: 8299

Fred, these are all good ideas, but unfortunetly, not practical to add.

1. I don't have any Anderson plugs, don't use them. In any event, from those I have seen others use, I belive they would be too big to build into an Altoids tin. The new Mountian topper will use a power jack which is not mounted to the board, so if you can figure out how to make the Anderson poles work, you have that option.

2. Reduced voltage for tune up mode would require adding an voltage regulator and a way to control it's output via the processor. There are no spare I/O ports to do the control, nor room to add an adjustable voltage regulator, or a place to duct the heat produced.

3. The Tune mode really isn't required, sending dits is usually all that is required, but being able to produce a steady carrier without going in to Straight key mode is handy on occasion and is needed if you have an autotuner (which is not really recommended) or what to check power output with a meter.

4. Band modules - I want to get away from using these for a couple of reasons. The main one being cost. In the quanities I buy boards in most of the cost is set up fees, so the band module boards each cost almost as much as the main board does. Then there are all the SIP pin and the socket which aren't cheap either. Spur suppresion is a little marginal with the plug in boards because the input and outputs are pretty close together, causing some "blow-by". Finally, there is the problem of people occasionally loosing a band module.

72, Steve KD1JV

a thought for Steve consider ...

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The ultimate way of doing it; once "TUNE mode" is selected, voltage is reduced to 9 volts or less, and then, a touch of the dit paddle causes dits to be sent hands free until the dit paddle is touched again.

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72, Fred - kt5x (aka WS0TA)

8300. ATS RX Performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-18 19:58:52 UTC
From: Lee Hiers
Topic: 8300 Message: 8300

Hello All,

I've got an ATS3B on the shelf of stuff to build, so I haven't had an opportunity to play with a finished rig yet. I've got an FT817 that is my main rig, but today in the ARRL DX contest I'm using a borrowed K3. Which *really
*makes me want to get a K3!

So, as I'm trying to work DX at 5 watts, I have a bit of time to ponder....and was wondering how the ATS3B would compare in RX performance to the FT817? I'm seriously thinking about selling the 817 and getting a K3, which would leave the ATS3B as my only portable rig (once I actually put it together!)...and I'm wondering if I'd miss it. Most of my activity is on 40 - 20 anyway, so I could probably do without the extra coverage in the 817...and I never work phone....

Has anyone compared the ATS rigs directly with the 817?

Back to the contest!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

8301. Re: [AT_Sprint] ATS RX Performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-18 20:30:17 UTC
From: Johnny Matlock
Topic: 8300 Message: 8301

Ga Lee:
I have a 817, an ATS sprint (early 3) and the new ATS 4 B.
In my opinion the little radios that Steve designed hold their own very well against the 817.
They are not fancy like the 817 and of course they only do a few bands, but the receivers are great!
Just my 2 cents!
72
Good luck with the choice, not an easy one!!
Johnny AC0BQ

On Sat, Feb 18, 2012 at 1:58 PM, Lee Hiers <lee.hiers@...> wrote:

> **
>
>
> Hello All,
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> I've got an ATS3B on the shelf of stuff to build, so I haven't had an
> opportunity to play with a finished rig yet. I've got an FT817 that is my
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> Back to the contest!
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> 73 de Lee
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> Lee Hiers, AA4GA
> www.aa4ga.com
>
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8302. Re: [AT_Sprint] ATS RX Performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-18 20:42:04 UTC
From: lmlangenfeld tds.net
Topic: 8300 Message: 8302

Lee:
*
*
*I can't compare the ATS rigs directly with the FT-817, but I can tell you that -- between my ATS-3A and '3B -- I have 162 DXCC entities worked, all at 9v and 3W (or less), and all while using an EFW which has never been strung higher than 15'. They are GREAT little rigs, and hold their own for DXing if you're willing to be patient, persistent and get facile with ATS split operation quirks. The ATS receivers are actually pretty hot and, for CW, probably hold a noticeable edge over the '817. *
*
*
*If you haven't yet spent some time operating an ATS-3-series rig, I guess I'd suggest you do so before making your ultimate decision. You may or may not like the "user interface" for day-to-day DXing. But, I can assure you that -- in terms of capabilities -- these rigs are more than up to the task.
*
*
*
GL es 72,
*
*
Mark -- WA9ETW
*
*
On Sat, Feb 18, 2012 at 1:58 PM, Lee Hiers <lee.hiers@...> wrote:

> **
>
>
> Hello All,
>
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> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
>
>

8303. RE: [AT_Sprint] ATS RX Performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-18 20:44:02 UTC
From: Dale Putnam
Topic: 8300 Message: 8303

I agree with Johnny, specs on both the 3 and 4.. compared to the 817... in a test condition...I think you would be hard pressed to present much measureable difference at all. IF you are considering using one in a heavy contest environment, like SS or similar conditions with a big antenna, and close neighbors pouring rf all over your rx... I'm not sure you would be pleased with any of them,although.. in a ligher test.. like 40 in the evening.. on an NS ladder night.. the little guys hold their own quite nicely.And on a mountain or hill top, in a casual operating condition.. again. you would be hard pressed to tell much difference,until you went to pack up.. and walk down the hill.... then the little guys stride way out front... both in weight, and in battery needed.The 817 can't work very well by being fed with a 9v battery... but the 3 and 4 will be quite happy for a surprising length of chat on a standard 9 v battery. Have a great day,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: jomatlock@...
Date: Sat, 18 Feb 2012 14:30:17 -0600
Subject: Re: [AT_Sprint] ATS RX Performance

Ga Lee:
I have a 817, an ATS sprint (early 3) and the new ATS 4 B.
In my opinion the little radios that Steve designed hold their own very well against the 817.
They are not fancy like the 817 and of course they only do a few bands, but the receivers are great!

Just my 2 cents!
72
Good luck with the choice, not an easy one!!
Johnny AC0BQ

On Sat, Feb 18, 2012 at 1:58 PM, Lee Hiers <lee.hiers@...> wrote:

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Has anyone compared the ATS rigs directly with the 817?
Back to the contest!

73 de Lee--
Lee Hiers, AA4GA
www.aa4ga.com

8304. Re: [AT_Sprint] ATS RX Performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-18 21:24:29 UTC
From: Stephen Wandling
Topic: 8300 Message: 8304

My ATS3B hears just a well as my IC 706.

72 Stephen VE7NSD
On 18/02/2012 11:58 AM, Lee Hiers wrote:
> Hello All,
>
> I've got an ATS3B on the shelf of stuff to build, so I haven't had an
> opportunity to play with a finished rig yet. I've got an FT817 that is my
> main rig, but today in the ARRL DX contest I'm using a borrowed K3.
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> Back to the contest!
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> 73 de Lee
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>
>

8305. Re: new ATS ... one other thought

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-19 00:06:22 UTC
From: cloud runner
Topic: 8305 Message: 8305
Attachments: 1 described; binary payloads are missing from this source WARC

QSL, Steve. One other thought, then ...

I am presently reducing the voltage during tuning up with an outboard switch which inserts several (voltage dropping) diodes in series with the DC line. To do this,I need an input jack, an output jack, three diodes, a very small plastic box, and a small toggle switch which all together weighs one ounce. ain't much, but this is almost half as much as the entire ATS3B ;-)

whereas

three series surface mount diodes dropping the voltage about 2 volts, with one of those tiny slide switches that shorts them for full voltage after tuned up might fit on the board and weigh a few grams ???

73, FD - kt5x

At present for the ATS3B, I made an adaptor that goes from the DC jack to Anderson powerpole, weighs six grams and does the job very neatly. I don't think an Anderson powerpole is copasetic with an Altoids box because the metal is so thin.

Here it is: from the bottom up, the voltage controlling switch, the homebrew adaptor, then ATS3B and EFHW tuner. Everything is configured to be vertically mounted with rubber bands on a fish pole antenna support with rubber bands.

----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Saturday, February 18, 2012 12:47 PM
Subject: Re: [AT_Sprint] new ATS ... things I'd like to see

Fred, these are all good ideas, but unfortunetly, not practical to add.

1. I don't have any Anderson plugs, don't use them. In any event, from those I have seen others use, I belive they would be too big to build into an Altoids tin. The new Mountian topper will use a power jack which is not mounted to the board, so if you can figure out how to make the Anderson poles work, you have that option.

2. Reduced voltage for tune up mode would require adding an voltage regulator and a way to control it's output via the processor. There are no spare I/O ports to do the control, nor room to add an adjustable voltage regulator, or a place to duct the heat produced.

3. The Tune mode really isn't required, sending dits is usually all that is required, but being able to produce a steady carrier without going in to Straight key mode is handy on occasion and is needed if you have an autotuner (which is not really recommended) or what to check power output with a meter.

4. Band modules - I want to get away from using these for a couple of reasons. The main one being cost. In the quanities I buy boards in most of the cost is set up fees, so the band module boards each cost almost as much as the main board does. Then there are all the SIP pin and the socket which aren't cheap either. Spur suppresion is a little marginal with the plug in boards because the input and outputs are pretty close together, causing some "blow-by". Finally, there is the problem of people occasionally loosing a band module.

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a thought for Steve consider ...

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* The nature of the radio likes reduced voltage during tune up. How about a "tune" mode that automatically reduces input voltage to something like 9 volts. It could be done in any of several ways I think, and done so much smaller, simpler, and lighter than doing it with an outboard attachment.

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therefore, how about the band module continuing to plug-in, but a two band plug-in. this allows switched band changing in field operation. One might have more than one two-band plug-in module, say, a daytime plug-in of 15/20 and a night time plug-in of say, 40/80. that would be a truly versatile and convenient way to do it...

72, Fred - kt5x (aka WS0TA)

8306. Re: [AT_Sprint] ATS RX Performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-19 00:13:57 UTC
From: cloud runner
Topic: 8300 Message: 8306

Can't imagine using the FT817 on 40 or 20 CW if you had an ATS3B at hand! The 817 has a w-i-d-e open front-end. YIKES! Any station on the band over S-9 will degrade what you hear, though an inexperienced op might think it was the other guy splattering!

73 Fred - kt5x

Hello All,

I've got an ATS3B on the shelf of stuff to build, so I haven't had an opportunity to play with a finished rig yet. I've got an FT817 that is my main rig, but today in the ARRL DX contest I'm using a borrowed K3. Which really makes me want to get a K3!

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Back to the contest!

73 de Lee
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Lee Hiers, AA4GA
www.aa4ga.com

8307. Re: [AT_Sprint] ATS RX Performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-19 01:07:30 UTC
From: Milton A Riutort
Topic: 8300 Message: 8307

Wow Lee, this is a good point. I am a owner of few small portable radios, Elecraft and Yaesu FT817nd. Never mind to compare them on the lab to see which one perform better, but each radio has it own personality, if I can say this.

We can talk about this a lot, but whatever that I say is just my opinion or experience while operate them not the exact lab test.

Anyway, the ATS radios are the most portable and easy to operate while on the field, even with all of the known issues. The FT817 may manage better some (QRN) noises with 500 Hz CW filter and DSP addition than the ATS, but the original Steve setup and filters pass band for CW is very good. ATS selectivity is very good for portable use and casual normal use. For a "hard core" DX operation you need to look another way. I admit have logged few DX expedition with mine, but this is not the norm, neither the FT817 can.

For digital modes, FT817 is better, but needs an external decoder or computer. Never use one of the ATS this way. My ATS4 is the first generation and never even think on this. It is very important for me to control the splatter and I feel very uncomfortable having no adjustment for this with the ATS. I may be wrong, yes, but it is something I can manage with the Yaesu.

Which one is or perform better? Hard to say, without lab testing, but ATS radios rocks!

I hope this help you.

Best 73,
Milton NP4KT

Sent from my iPhone

On Feb 18, 2012, at 4:30 PM, Johnny Matlock <jomatlock@...> wrote:

> Ga Lee:
> I have a 817, an ATS sprint (early 3) and the new ATS 4 B.
> In my opinion the little radios that Steve designed hold their own very well against the 817.
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8308. RE: [AT_Sprint] Re: new ATS ... one other thought

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-19 02:41:37 UTC
From: Dale Putnam
Topic: 8305 Message: 8308
Attachments: 1 described; binary payloads are missing from this source WARC

Or... switching in or out a 5 ohm resistor from the power lead.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: just.one.hill@gmail.com
Date: Sat, 18 Feb 2012 17:06:22 -0700
Subject: [AT_Sprint] Re: new ATS ... one other thought

QSL, Steve. One other thought, then ...

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Steven
Weber
To: AT_Sprint@yahoogroups.com
Sent: Saturday, February 18, 2012 12:47
PM
Subject: Re: [AT_Sprint] new ATS ...
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to check power output with a meter.

4. Band modules - I want to get away
from using these for a couple of reasons. The main one being cost. In the
quanities I buy boards in most of the cost is set up fees, so the band
module boards each cost almost as much as the main board does.
Then there are all the SIP pin and the socket
which aren't cheap either. Spur suppresion is a little marginal with the plug
in boards because the input and outputs are pretty close together, causing
some "blow-by". Finally, there is the problem of people occasionally loosing a
band module.

72, Steve KD1JV

a thought for Steve consider ...

* I sure do prefer Anderson powerpole DC jack to
others. I like how it might slide out, not having to be unsoldered to
dismantle the rig. I like how it can mate up with other things in the
shack.

* The nature of the radio likes reduced voltage during
tune up. How about a "tune" mode that automatically reduces input
voltage to something like 9 volts. It could be done in any of several
ways I think, and done so much smaller, simpler, and lighter than doing it
with an outboard attachment.

* I NEVER use the present tune mode of "key
down." Never. I much prefer to touch the dit paddle giving fifty
percent duty cycle while tuning up. Suggest this in "tune" mode rather
than key down, or, if others prefer a solid key down, a way for it to
be optional.

The ultimate way of doing it; once "TUNE mode" is
selected, voltage is reduced to 9 volts or less, and then, a touch of the
dit paddle causes dits to be sent hands free until the dit paddle is touched

again.

* I think part of the game plan is two band radio,
bands operator chosen, built on the basic board. But plug-in itself
isn't a problem, it is band changing in the field.

therefore, how about the band module continuing
to plug-in, but a two band plug-in. this allows switched band
changing in field operation. One might have more than one two-band
plug-in module, say, a daytime plug-in of 15/20 and a night time plug-in of
say, 40/80. that would be a truly versatile and convenient way to do
it...

72, Fred - kt5x (aka WS0TA)

8309. Samsonite Case

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-19 02:59:05 UTC
From: Chris Fowler
Topic: 8309 Message: 8309

I'm cleaning out my office and have a Samsonite camera case for sale. I bought it to use with a Cannon G3 back in 2003, but never did use it.

I offer it up to you gust, because I think the ATS and associated items would fit nicely. Has a shoulder strap, a main pocket, and front pocket. Also has belt loop.

Pic:

http://dl.dropbox.com/u/2486826/case.jpg

$10 includes U.S. ship.

73,
Chris K4FH

8310. Re: ATS RX Performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-20 05:08:11 UTC
From: radio_kx0r
Topic: 8300 Message: 8310

Lee,
I have all three radios - the ATS-3B, the FT-817, and the K3. Also have the Red Hot 20 and the Red Hot 40 (similar to Norcal 20 and 40). Comparisons:

The K3 is the best by far. You know that.

The FT-817 is an amazing, versatile rig that does many things pretty well - but the receiver will overload on strong signals, and if you use it in a contest, with many high-power stations close by, you will experience extra stress. Strong signals de-sensitize the FT-817's RF and IF stages. The AGC also fights you.

You can improve the way the FT-817 works by using the front end attenuator, by using the IPO setting, and turning off the pre-amp. On the lower frequencies, with a large antenna, you don't want the extra gain that this receiver offers, and it does a better job with the IPO and the attenuator. I used mine for FD several years, and I did pretty well with it - but on 20M and 40M it was not as nice as on the upper bands. I have a 300 Hz crystal filter in mine, and I also use a SCAF-1 audio filter. The FT-817 has excessive audio hiss that needs to be cleaned up - both for CW and SSB.

Now I only use the K3 for FD, even though it's large and uses too much current for receiving. It's like night and day when the bands are busy with big signals. I have not used a KX3 yet...

The ATS-3B actually sounds nicer than the FT-817. The ATS-3B crystal filter is very sharp with steep skirts, and it does a good job of rejecting stations close by. The front end is about as strong as you can expect from an NE-602/SA-612 mixer. The current consumption would have to be increased to get much better overload/higher IP3 performance. The first mixer and IF would have to be improved, and this comes at great cost in current and PC board space. The front end filters are pretty good, which helps reject out-of band signals like short wave broadcast, etc., and using a tuner also improves out-of-band rejection. This is a well-balanced design for portable work. Even with no preamp, there is enough sensitivity for good performance on 15M. My ATS-3B will hear a few tenths of a microvolt on every band - but I did some extra work and measurements to make sure that all my receive filters were really peaked.

I also have a KX1, and the ATS rigs run rings around it. The KX1 doesn't have enough sensitivity or selectivity.

The Red-Hot radios have a +7 dbm double-balanced first mixer followed by a power transistor IF stage with considerable headroom. They eat a lot of current, but they really sound great. The design has a high IP3 and handles strong in-band signals well. The IF crystal filters also are nice. The audio is quiet, clean, and strong. These are nice receivers. Besides the power consumption issue, the VFO is free-running, and it drifts some - the tuning is non-linear - the VFO drift is not helped by the heat developed by the IF amplifier.

If you're goal is to do real portable work, requiring hiking and backpacking, the ATS rigs are what you need. The low weight and battery efficiency trump everything else. I've never actually taken my FT-817 out on a trail - the rig and a suitable battery weigh too much. Add a tuner, a real antenna, feedline, ropes, headphones, paddles, fishing pole - you're not enjoying the trip any more.

I carried my ATS-3B up to a ski cabin at 11,370 feet last month here in Colorado. We backpacked up there four miles, on skiis and snowshoes, through several feet of fresh powder snow. The rig, antenna, ropes, battery, tuner, accessories, and the fishing pole I need to deploy the antenna weighed 4 pounds. If the weight had been any greater, I would not have taken a radio on that trip. The air up there is thin, and I am not young. Radios like the FT-817 are out of the question.

I made plenty of QSO's at the high QTH, mostly on 20 and 15M. All were mini-ragchews, with plenty of content. I was on the air for hours, but I never ran my 2.2 AH lithium ion battery down.

The ATS rigs are the winners for the kind of operating where you need to carry the radio a considerable distance. There is a huge world out there, away from roads, where you can take a radio and enjoy the experience, but only a few radios are fun to take there.

Steve's tiny design is a real breakthrough.

Thanks Steve -

Carey
KX0R

--- In AT_Sprint@yahoogroups.com, Lee Hiers <lee.hiers@...> wrote:
>
> Hello All,
>
> I've got an ATS3B on the shelf of stuff to build, so I haven't had an
> opportunity to play with a finished rig yet. I've got an FT817 that is my
> main rig, but today in the ARRL DX contest I'm using a borrowed K3.
> Which *really
> *makes me want to get a K3!
>
> So, as I'm trying to work DX at 5 watts, I have a bit of time to
> ponder....and was wondering how the ATS3B would compare in RX performance
> to the FT817? I'm seriously thinking about selling the 817 and getting a
> K3, which would leave the ATS3B as my only portable rig (once I actually
> put it together!)...and I'm wondering if I'd miss it. Most of my activity
> is on 40 - 20 anyway, so I could probably do without the extra coverage in
> the 817...and I never work phone....
>
> Has anyone compared the ATS rigs directly with the 817?
>
> Back to the contest!
>
> 73 de Lee
> --
> Lee Hiers, AA4GA

> www.aa4ga.com
>

8311. Re: [AT_Sprint] Re: ATS RX Performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-20 16:27:06 UTC
From: Lee Hiers
Topic: 8300 Message: 8311

Hey, thanks everyone for the input - I appreciate it all!

On Mon, Feb 20, 2012 at 12:08 AM, radio_kx0r <careyfuller@...>wrote:

> I have all three radios - the ATS-3B, the FT-817, and the K3. Also have
> the Red Hot 20 and the Red Hot 40 (similar to Norcal 20 and 40).
>
OK Carey - you have too many rigs! Not really...

The FT-817 is an amazing, versatile rig that does many things pretty well -
> but the receiver will overload on strong signals, and if you use it in a
> contest, with many high-power stations close by, you will experience extra
> stress. Strong signals de-sensitize the FT-817's RF and IF stages. The AGC
> also fights you.
>
Yes, I know that first-hand. I operated the 817 in Field Day, ARRL SS, and
CQWW last year as my only rig. Even with the preamp off and attenuator in,
the 80m band was a huge pain in SS especially.

Now I only use the K3 for FD, even though it's large and uses too much
> current for receiving. It's like night and day when the bands are busy with
> big signals. I have not used a KX3 yet...
>
If I have a K3 in time for FD, yes, it's going out with me, even if I have
to lug along another battery!

The ATS-3B actually sounds nicer than the FT-817.
>
That's good to know. I'll admit there were two main reasons I bought the
ATS-3B kit: first was the "neat-o" factor - having a good multi-band
transceiver in an Altoids tin. Second, it looks like the ideal rig to use
for the Spartan Sprints. I'm not much of a hiker, but have considered some
light SOTA activations, and the ATS would obviously be great for that.

All along however, I'd assumed that the '817 was a "better" rig - it's
comforting to hear that Steve's creation more than holds its own!

> The Red-Hot radios have a +7 dbm double-balanced first mixer followed by a
> power transistor IF stage with considerable headroom. They eat a lot of
> current, but they really sound great.
>
That's something to look at down the road too for fun...weren't they
talking about bringing out a 30m version?

Back to the original topic...it sounds like receiver-performance-wise, I
won't be giving anything up by getting rid of the FT817 in favor of the
ATS. I will say though, that the '817 does have a lot of other stuff going

for it and I wouldn't mind keeping it. Even with its problems, I've been very happy with the rig, making over 2k QSOs with it in the past year I've had it. I just don't know how much I'd use it if I had a K-3 and and ATS available. And it would make the acquisition of the K3 happen a little sooner...

Maybe I'll sell a guitar instead...

Thanks again, everyone!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

8312. ATS for sale?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-21 03:13:51 UTC
From: JohnK
Topic: 8312 Message: 8312

Does anyone have an ATS3B or one of the ATS4s for sale, kit or built? John, W7COI

8313. Re: Buttons Failing on ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-21 00:03:26 UTC
From: James
Topic: 8286 Message: 8313

AllElectronics has a tactile switch that is $0.35 each. It looks exactly like the "Soft" brown ones used on the PFR-3. CAT# MPB-218.

8314. Off topic info needed..!?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-21 09:42:23 UTC
From: Gil WA5YKK
Topic: 8309 Message: 8314

For anyone who has more Internet experience than I do - I have a Marantz receiver, RC430, that I either lost the original owner's manual for, or one never arrived with it. Thus far, with a lot of head scratching and time looking, I did find "a service manual", but no owner's manual. Seems that the "vintage item" is so different that only a few were ever made, thus I'm between a rock and a hard place.

If anyone can reply directly to me at my email address with a hint of a solid lead to the paperwork, I'll appreciate it! This happens to be one of those "buyer beware" items that made it to eBay, then the seller disappeared. If it can't be used, I'll donate any sale of it to the American Cancer folks, to get some good out of it.

Thanks for the off topic bandwidth, kindly "reply to sender".

73's
Gil WA5YKK

8315. Re: [AT_Sprint] Off topic info needed..!?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-21 18:08:53 UTC
From: Steven Weber
Topic: 8309 Message: 8315

Gil,

Good luck finding a service diagram or schematic for one of these. I doubt they were ever available except maybe for an autherized service center.

What issues are you having with the stereo?

Of course, the first thing to do is clean all the controls and switches. That takes care of 90% of the problems. DW40 makes good contact cleaner, though you have to air it out for a while to get rid of the smell.

The most common problem is generally blown power amps. Fixing these usually requires replacing both the output transistors AND the drivers and any burnt resistors. I have a Maranz 2215 which would play okay for 10 mintues and then one channel would start to distort. Found one of the drivers was going bad when it got hot. Since left and right use identical circuits and the layout is usually pretty symetrical, if one side is working you can use that as a reference. When working on the power amp, I chech all the transistors and diodes with the diode test on my multi-meter, all the low value resistors and make sure none of the electrolytic caps are shorted. Open or dry caps are harder to find with out a ISR meter.

Another common problem is shorted electrolytic caps - which almost always seem to be 100 ufd ones bypassing low level stages. One should always check for bad solder joints, typically on parts in the power supply area which get hot.

If shipping weren't so expensive I'd fix it for you, but the cost of sending it back and forth would be much more then the thing is worth - dead or alive.

Steve KD1JV

8316. Re: ATS RX Performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-21 18:59:10 UTC
From: scott
Topic: 8300 Message: 8316

--- In AT_Sprint@yahoogroups.com, "radio_kx0r" <careyfuller@...> wrote:
> I carried my ATS-3B up to a ski cabin at 11,370 feet last month here in Colorado. We backpacked up there four miles, on skiis and snowshoes, through several feet of fresh powder snow. The rig, antenna, ropes, battery, tuner, accessories, and the fishing pole I need to deploy the antenna weighed 4 pounds. If the weight had been any greater, I would not have taken a radio on that trip. The air up there is thin, and I am not young. Radios like the FT-817 are out of the question.
>

Thanks for the QSO, Carey! It was fun working you up there.

>
> The ATS rigs are the winners for the kind of operating where you need to carry the radio a considerable distance. There is a huge world out there, away from roads, where you can take a radio and enjoy the experience, but only a few radios are fun to take there.
>
> Steve's tiny design is a real breakthrough.

I agree with this; I just got back last night from a President's Day SoTA junket to Texas 2nd highest peak, Bush Mountain (W5/GU-002).

With 9 qts of water, my (synthetic) winter bag, tent, stove, etc, my pack was already 60 lbs. A heavier radio+battery would not have been welcome!

To me, the biggest drawback to the FT-817ND isn't the weight of the radio as much as the 250 mA that the thing pulls when it's squelched (with nothing coming out of the speaker). When the squelch opens and you actually hear a signal, the receive mode current rises to 450 mA. That makes it pretty much a non-starter for trips like the one I just took (at least to me; I'm not young any more).

The AT Sprint radios don't draw much more than that (about 600-700 mA) when they transmit!

The ATS is a very liberating radio, weight and particularly current-consumption wise.

73
Scott W5ESE

8317. Re: [AT_Sprint] ATS for sale?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-21 21:15:12 UTC
From: Steven Weber
Topic: 8312 Message: 8317

> Does anyone have an ATS3B or one of the ATS4s for sale, kit or built?
> John, W7COI
>

If you can wait about a month, I should have the new 2 band Mountian Topper version ready for $100.

I got the prototype boards in last week (which had a number of mistakes which needed to be fixed, but that's why we spend to big bucks to have a few made). All that's left is to start buying parts and have the final version of the board made.

72, Steve KD1JV

8318. ATS and speaker

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 14:58:39 UTC
From: cloud runner
Topic: 8318 Message: 8318

There are times when while using the ATS3 (or 4) in the field, when a tiny speaker would be useful, instead of the headfones. But I would like to do this with the smallest and lightest arrangment possible ...

* is there a peaker small enough, that it could be driven directly by the ATS3 ???

* would the low impedance of a typical tiny speaker damage the the audio stage of the AST?

* it being that one is listeing to CW, not a voice, would a piezo device be usable???

TNX !

73 Fred - kt5x

8319. Re: ATS-3C or maybe MTR (mountain top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 15:11:48 UTC
From: John
Topic: 8036 Message: 8319

Hi Steve,

How is this rig shaping up specs-wise?? I could go for 40m and 20m though 30m would be nice. Will we be able to build our rig to customize the bands? I know this would require some changes in programming, but I could see buying two and building one for 40/20 and one for 30/20.

I also like the idea of off board connectors as this gives "me" more flexibility in how I build it into an enclosure. I have no real need for the LED digit as the CW annunciator works fine for me.

My primary use is for backpacking.

72 - john - n0hj

8320. Re: [AT_Sprint] ATS and speaker

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 16:10:57 UTC
From: Ted Groke
Topic: 8318 Message: 8320
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Fred,

Check out some of the amplified speakers that are available for MP3 players. There's a bunch of them out there that are available with battery's included. [?]

Ted, W2TAG

On Wed, Feb 22, 2012 at 9:58 AM, cloud runner <just.one.hill@...>wrote:

> **
>
>
> There are times when while using the ATS3 (or 4) in the field, when a tiny
> speaker would be useful, instead of the headfones. But I would like to do
> this with the smallest and lightest arrangment possible ...
>
> * is there a peaker small enough, that it could be driven directly by the
> ATS3 ???
>
> * would the low impedance of a typical tiny speaker damage the the audio
> stage of the AST?
>
> * it being that one is listeing to CW, not a voice, would a piezo device
> be usable???
>
> TNX !
>
> 73 Fred - kt5x
>
>
>

8321. Re: [AT_Sprint] ATS and speaker

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 17:04:39 UTC
From: Steven Weber
Topic: 8318 Message: 8321

The ATS-4 rigs use a LM386 for the final audio amp, so they can drive a small speaker directly. The resonant CW speaker I show plans for in the -4 manual (and my web site) works very well, but it is a bit large for use out in the bush.

The ATS-3 and eariler series have a lower power audio amp, so using an amplifed speaker is recommended. Thankfully, there is a wide selection of small amplifed speakers available now for MP3 players.

Steve KD1JV

There are times when while using the ATS3 (or 4) in the field, when a tiny speaker would be useful, instead of the headfones. But I would like to do this with the smallest and lightest arrangment possible ...

8322. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountain top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 17:35:34 UTC
From: Steven Weber
Topic: 8036 Message: 8322

John and group,
>
> How is this rig shaping up specs-wise?? I could go for 40m and 20m
> though 30m would be nice. Will we be able to build our rig to customize
> the bands? I know this would require some changes in programming, but I
> could see buying two and building one for 40/20 and one for 30/20.
>

The rig is just about ready to start producing (i.e., ordering the boards and parts and doing the manual). As invisioned, it will be dual band with slide switched filters, like on the ATS-4 and be all on one board. It still has the LED display, because there was no reason not to have it. Anyway, I for one like to have some visual feedback too.

A 40/20 version will be the "stock" bands, though I will probably allow you the option of using 30/20 instead since it doesn't cost much to include a few extra capacitor values. Parts for 80 M instead of 40 can be had by special request, mostly to keep my friends in Switzerland happy as they use that band for the yearly "Mountian day" contest.

To keep the current draw of the rig to an absolute minimum, I'm using a 40 MHz reference clock which limits the upper band to be no more than 20M.

I suppose I should take some pictures of the prototype board and post them here. Maybe later tonight.

72, Steve KD1JV

8323. Re: [AT_Sprint] ATS and speaker

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 17:41:03 UTC
From: cloud runner
Topic: 8318 Message: 8323

Thank you. This helps a lot!

The MP3 resonant speakers are larger and heavier than the ATS3B itself, so I wouldn't go that route. I'll try a smallest speaker on the ATS4 and see if I can make that serve.

Steve: On the ATS3B ... I have put two Ipod heafones, each 32 ohms, in parallel using a tiny adapter, yielding a net of 16 ohms. That won't injure the ATS3B audio stage, will it?

tnx - fd

----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, February 22, 2012 10:04 AM
Subject: Re: [AT_Sprint] ATS and speaker

The ATS-4 rigs use a LM386 for the final audio amp, so they can drive a small speaker directly. The resonant CW speaker I show plans for in the -4 manual (and my web site) works very well, but it is a bit large for use out in the bush.

The ATS-3 and eariler series have a lower power audio amp, so using an amplifed speaker is recommended. Thankfully, there is a wide selection of small amplifed speakers available now for MP3 players.

Steve KD1JV

There are times when while using the ATS3 (or 4) in the field, when a tiny speaker would be useful, instead of the headfones. But I would like to do this with the smallest and lightest arrangment possible ...

8324. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountain top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 17:44:11 UTC
From: jaevans@pcisys.net
Topic: 8036 Message: 8324

Very cool !!! I look forward to some pix - Thanks, Steve !

72 - john - n0hj

> John and group,
> ..
> ..
> A 40/20 version will be the "stock" bands, though I will probably allow you
> the option of using 30/20 instead since it doesn't cost much to include a
> few extra capacitor values. Parts for 80 M instead of 40 can be had by
> special request, mostly to keep my friends in Switzerland happy as they use
> that band for the yearly "Mountian day" contest.

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

8325. Re: [AT_Sprint] ATS and speaker

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 15:25:00 UTC
From: david gauding
Topic: 8318 Message: 8325

Fred,

I lucked into finding an old (10-15 years?) AT&T Auxiliary Speaker for use with mobile cellular phones 3040, 3050, 3440, 3450. It's 8 ohms, rated at 3W and made in Korea. It's in a 3"x 2"x1-1/2" black case and designed for dashboard mounting.

I researched last year for someone in the group but could not find a current reference to this speaker other than its phones are a long discontinued product. The speaker itself is not identified as a separate product.

The 8 ohm rating is probably one key to it's excellent performance. I'm sure the interior configuration of the speaker case also contributes. Used in my basement shack there is more than enough audio for listening across the room. I don't think it was ever tried outdoors.

Finally, this little speaker is a dud when used with my K2 which suggests the impedance is very compatible with the ATS3B.

Hope this helps.

Dave Gauding, NF0R

>
>From: cloud runner <just.one.hill@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Wed, February 22, 2012 8:58:39 AM
>Subject: [AT_Sprint] ATS and speaker
>
>
>* is there a peaker small enough, that it could be driven directly by the ATS3
>???
>
>
>
> 73 Fred - kt5x
>
>
>

8326. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountain top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 17:51:47 UTC
From: Lee Hiers
Topic: 8036 Message: 8326

On Wed, Feb 22, 2012 at 12:35 PM, Steven Weber <steve.kd1jv@...>wrote:

The rig is just about ready to start producing (i.e., ordering the boards
> and parts and doing the manual). As invisioned, it will be dual band with
> slide switched filters, like on the ATS-4 and be all on one board.
>
Steve -

Do you have an idea of how the weight of this rig would compare to an ATS3B
with 20 and 40 meter plugins? And you're talking Altoids-tin compatible,
right?

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

8327. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountain top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 17:52:55 UTC
From: Richard F5VJD
Topic: 8036 Message: 8327

Hello Steve and group

I think that I am getting more excited waiting for the 'Mountain Topper" than I am for the KX3!

Just a point on the possibility of varying the bands - the two most useful bands for SOTA activations here in Europe are 30m and 40m - any chance that this combination might also be an option?

Keep up the good work.

73

Richard F5VJD

On 22/02/2012 18:35, Steven Weber wrote:
>
> John and group,
> >
> > How is this rig shaping up specs-wise?? I could go for 40m and 20m
> > though 30m would be nice. Will we be able to build our rig to customize
> > the bands? I know this would require some changes in programming, but I
> > could see buying two and building one for 40/20 and one for 30/20.
> >
>
> The rig is just about ready to start producing (i.e., ordering the boards
> and parts and doing the manual). As invisioned, it will be dual band with
> slide switched filters, like on the ATS-4 and be all on one board. It
> still
> has the LED display, because there was no reason not to have it.
> Anyway, I
> for one like to have some visual feedback too.
>
> A 40/20 version will be the "stock" bands, though I will probably
> allow you
> the option of using 30/20 instead since it doesn't cost much to include a
> few extra capacitor values. Parts for 80 M instead of 40 can be had by
> special request, mostly to keep my friends in Switzerland happy as
> they use
> that band for the yearly "Mountian day" contest.
>
> To keep the current draw of the rig to an absolute minimum, I'm using
> a 40
> MHz reference clock which limits the upper band to be no more than 20M.
>
> I suppose I should take some pictures of the prototype board and post

> them
> here. Maybe later tonight.
>
> 72, Steve KD1JV
>
>

8328. Re: [AT_Sprint] ATS and speaker

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 17:59:22 UTC
From: cloud runner
Topic: 8318 Message: 8328

Thanks, Dave, that is interesting information.

Fred,

I lucked into finding an old (10-15 years?) AT&T Auxiliary Speaker for use with mobile cellular phones 3040, 3050, 3440, 3450. It's 8 ohms, rated at 3W and made in Korea. It's in a 3"x 2"x1-1/2" black case and designed for dashboard mounting.

I researched last year for someone in the group but could not find a current reference to this speaker other than its phones are a long discontinued product. The speaker itself is not identified as a separate product.

The 8 ohm rating is probably one key to it's excellent performance. I'm sure the interior configuration of the speaker case also contributes. Used in my basement shack there is more than enough audio for listening across the room. I don't think it was ever tried outdoors.

Finally, this little speaker is a dud when used with my K2 which suggests the impedance is very compatible with the ATS3B.

Hope this helps.

Dave Gauding, NF0R

8329. Re: [AT_Sprint] ATS and speaker

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 18:03:44 UTC
From: cloud runner
Topic: 8318 Message: 8329
Attachments: 1 described; binary payloads are missing from this source WARC

The last time I looked year or two ago, what I found were powered by AA's. Now I am seeing some powered by tiny Lion's and that could be interesting!

tnx

Hi Fred,

Check out some of the amplified speakers that are available for MP3 players. There's a bunch of them out there that are available with battery's included.

Ted, W2TAG

8330. RE: [AT_Sprint] ATS and speaker

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 18:12:35 UTC
From: Dale Putnam
Topic: 8318 Message: 8330
Attachments: 1 described; binary payloads are missing from this source WARC

There is one "Lil Bullet", I think the name is.. that is a Li powered amp/speaker, that charges from a usb.. I haven't yet figured out how it would get the audio from the AT tho...

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: just.one.hill@...
Date: Wed, 22 Feb 2012 11:03:44 -0700
Subject: Re: [AT_Sprint] ATS and speaker

The last time I looked year or
two ago, what I found were powered by AA's. Now I am seeing some powered
by tiny Lion's and that could be interesting!

tnx

Hi Fred,

Check out some of the amplified speakers that are available for MP3
players. There's a bunch of them out there that are available with battery's
included.

Ted, W2TAG

8331. Re: [AT_Sprint] ATS and speaker

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 18:56:33 UTC
From: Stephen Wandling
Topic: 8318 Message: 8331

Here in Canada, Radio Shack has become Circuit City: The Source. I bought a small MP3 player amp/speaker from them that is 2 1/2" x 1" x 1", and is powered by a single AAA battery. It has a built-in audio plug for plugging into your music player, so I also bought a 12" audio cable with an inline volume control.
http://reviews.thesource.ca/9026/1410078/centrios-centrios-portable-mini-speaker-for-ipod-mp3-players-reviews/reviews.htm

This has worked very well with my ATS3B.

72 Stephen VE7NSD
On 22/02/2012 6:58 AM, cloud runner wrote:
> There are times when while using the ATS3 (or 4) in the field, when a tiny speaker would be useful, instead of the headfones. But I would like to do this with the smallest and lightest arrangment possible ...
>
> * is there a peaker small enough, that it could be driven directly by the ATS3 ???
>
> * would the low impedance of a typical tiny speaker damage the the audio stage of the AST?
>
> * it being that one is listeing to CW, not a voice, would a piezo device be usable???
>
> TNX !
>
> 73 Fred - kt5x
>

8332. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountain top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 19:47:07 UTC
From: Steven Weber
Topic: 8036 Message: 8332

Yes, it still fits into an Altoids tin and the weight should be about the same, maybe a couple of grams heavier.

Do you have an idea of how the weight of this rig would compare to an ATS3B with 20 and 40 meter plugins? And you're talking Altoids-tin compatible, right?

8333. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountain top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 20:12:25 UTC
From: Lee Hiers
Topic: 8036 Message: 8333

On Wed, Feb 22, 2012 at 2:47 PM, Steven Weber <steve.kd1jv@...> wrote:

Yes, it still fits into an Altoids tin and the weight should be about the
> same, maybe a couple of grams heavier.
>

Sorry for all the trivial questions, but...

There will be three switches for bandswitching? And will they be
accessible from the outside of an Altoids tin, or must the box be opened
(the latter would be better as far as I'm concerned - fewer holes to cut in
an ornery tin!)?

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

8334. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountain top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 20:13:20 UTC
From: Lee Hiers
Topic: 8036 Message: 8334

On Wed, Feb 22, 2012 at 12:52 PM, Richard F5VJD <f5vjd@...> wrote:

> I think that I am getting more excited waiting for the 'Mountain Topper"
> than I am for the KX3!
>

It's sure going to make it to market sooner than the KX3! ;-)

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

8335. ATS-3C ... holes (a way to make them)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 21:24:13 UTC
From: cloud runner
Topic: 8335 Message: 8335
Attachments: 1 described; binary payloads are missing from this source WARC

Another might suggest punches. I don't have same, so ...

A trick with the tin ... I drilled a small hole for the switches, then took a nail set, and enlarged the hole by pushing the nail set in. The result is a very round hole with rounded edges.

For the square hole, I reported this trick once before, I drew the diagonals. Then drilled a small hole at the interesction. Then I used a tiny jelwer's saw to cut the diagnonals, then, and this is the key, folded the flaps back again making a rounded edge.

73 Fred - kt5x

aka WS0TA

----- Original Message -----
From: Lee Hiers
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, February 22, 2012 1:12 PM
Subject: Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountain top rig)

On Wed, Feb 22, 2012 at 2:47 PM, Steven Weber <steve.kd1jv@...> wrote:

Yes, it still fits into an Altoids tin and the weight should be about the same, maybe a couple of grams heavier.

Sorry for all the trivial questions, but...

There will be three switches for bandswitching? And will they be accessible from the outside of an Altoids tin, or must the box be opened (the latter would be better as far as I'm concerned - fewer holes to cut in an ornery tin!)?

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

8336. Mountian topper photos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 21:52:30 UTC
From: Steven
Topic: 8336 Message: 8336

Okay, I just up loaded a few pictures of the new rig. Look for the photo album "MTR" in the photo section.

72, Steve KD1JV

8337. Re: [AT_Sprint] Mountian topper photos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 22:07:05 UTC
From: nicehouse101@yahoo.com
Topic: 8336 Message: 8337

Steve I dont see the link for the photos.

From: Steven <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, February 22, 2012 1:52 PM
Subject: [AT_Sprint] Mountian topper photos

Okay, I just up loaded a few pictures of the new rig. Look for the photo album "MTR" in the photo section.

72, Steve KD1JV

8338. Re: [AT_Sprint] Mountian topper photos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 22:11:11 UTC
From: Charles Nolin
Topic: 8336 Message: 8338

HI Steve,

Very nice Pictures, I am looking forward to the release of the new rig.
I will take a couple to add to my collection...

Thanks Steve,
Chuck Nolin
WA6LTV/4

From: Steven <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, February 22, 2012 4:52 PM
Subject: [AT_Sprint] Mountian topper photos

Okay, I just up loaded a few pictures of the new rig. Look for the photo album "MTR" in the photo section.

72, Steve KD1JV

8339. Re: [AT_Sprint] Mountian topper photos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 22:15:16 UTC
From: Michael Harnage
Topic: 8336 Message: 8339

Sweet, looks like you can put the band switches on the other side of the board so that they are internal. Hmmmm, I just may go for two of these. Maybe 4 and treat them as single banders..... hmmmm, the possibilities.....

-mike/w1mt

Here is a link:

http://groups.yahoo.com/group/AT_Sprint/photos/album/969089906/pic/list?mode=tn&order=ordinal&start=1&dir=asc

>_____
> From: Steven <steve.kd1jv@...>
>
>
Okay, I just up loaded a few pictures of the new rig. Look for the photo album "MTR" in the photo section.
>
>

8340. Re: [AT_Sprint] Mountian topper photos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 22:21:30 UTC
From: Steven Weber
Topic: 8336 Message: 8340

There is no link - you have to go to the yahoo group page, click on "photos" in the menu bar on the left and click through the albums untill you find MTR folder.

Steve I dont see the link for the photos.

8341. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountain top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 22:24:57 UTC
From: Steven Weber
Topic: 8036 Message: 8341

Yes, I made sure the band switches can be mounted on either side of the board, but switching them from inside the tin will likely take a tool to reach in there with. See the photos I just uploaded.
Steve

There will be three switches for bandswitching? And will they be accessible from the outside of an Altoids tin, or must the box be opened (the latter would be better as far as I'm concerned - fewer holes to cut in an ornery tin!)?

8342. Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountain top rig)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-22 22:44:30 UTC
From: Charles Nolin
Topic: 8036 Message: 8342

HI Steve,

I like the idea that the switches can be mounted on either side. I always mounted my swithces inside the case, except
the last ATS3b1 series with the LED display. I put my swithches inside so they would be protected.
You can see in my pictures the switches are inside, even the PSK Decoder are inside, without ever drilling holes
in the top covers.

Chuck Nolin
WA6LTV

From: Steven Weber <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, February 22, 2012 5:24 PM
Subject: Re: [AT_Sprint] Re: ATS-3C or maybe MTR (mountain top rig)

Yes, I made sure the band switches can be mounted
on either side of the board, but switching them from inside the tin will likely
take a tool to reach in there with. See the photos I just uploaded.
Steve

There will be three switches for bandswitching? And will they be accessible from the outside of an Altoids tin, or must the box be opened (the latter would be better as far as I'm concerned - fewer holes to cut in an ornery tin!)?
>

8343. RE: [AT_Sprint] Mountian topper photos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-23 11:09:05 UTC
From: Jake, ON4YZ
Topic: 8336 Message: 8343

Steve,

Please can you count me for 3 Mountain Toppers?

One being 80/40m version.

Mni tnx.

73 de Jake - ON4YZ

8344. MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 08:01:02 UTC
From: John
Topic: 8344 Message: 8344

Steve:
I'm new to this list so I don't know of
your development plans or features for the MTR.
I'm looking for an ability to use the MTR
with an iPhone or Android device.
Do you see this as possible with your new
MTR design?

I'm open to adding interface circuits if needed.

The mobile device would run the equivalent of
FLDigi, PSKMail, etc., eventually. There is
lots of code around (I'm thinking of the new
CW code in the NEU-PSK modem) that could be
implemented on these devices.

Thanks,
John Hestenes, KJ6CVB

8345. ATS-4 .. will there be a re-run?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 10:58:36 UTC
From: John Farmer
Topic: 8345 Message: 8345

Hello Group,

I'm new to the group and I'm wondering if the ATS-4b is going to have another production run someday, or is Steve's Mountain Topper 2 bander a replacement for this?

I'd really like to have an ATS-4 to take backpacking, so guess I'm hoping there will be a re-run. Currently I have a lot of fun with his PFR-3 design.

73,

John
VK7JB

8346. Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 12:55:30 UTC
From: Vojtech
Topic: 8344 Message: 8346

> I'm looking for an ability to use the MTR
> with an iPhone or Android device.

I am not sure whether Steve supports digital modes with the MTR, but the earlier ATS designs supporting digital modes are only able to transmit using the PocketDigi software on Pocket PC, Windows Mobile phone or laptop.

The PocketDigi source code is freely available at www.sourceforge.net and you are free to port it to iPhone or Android if you have the skill and time. Or you may just use the code interfacing with the ATS transceiver and add it to an existing digital modes software.

For a brief description of the communication interface, see
http://www.kufr.cz/~ok1iak/HAM/ATS3a-digital/index.php3

PocketDigi was inspired by the MixW software and supports plenty of digital modes including CW.

73, Vojtech OK1IAK

8347. Re: [AT_Sprint] ATS-4 .. will there be a re-r un?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 12:28:20 UTC
From: Alex Ponomarenko
Topic: 8347 Message: 8347

Hi John,

I'm also await for the ATS4b or ATS4x)
Hope it will be possible soon.

Alex
UR5LAM

24 февраля 2012, 16:08 от "John Farmer" <zendoc@netspace.net.au>:
> Hello Group,
>
> I'm new to the group and I'm wondering if the ATS-4b is going to have another production run someday, or is Steve's Mountain Topper 2 bander a replacement for this?
>
> I'd really like to have an ATS-4 to take backpacking, so guess I'm hoping there will be a re-run. Currently I have a lot of fun with his PFR-3 design.
>
> 73,
>
> John
> VK7JB
>
>

8348. Re: [AT_Sprint] ATS-4 .. will there be a re-run?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 18:43:40 UTC
From: Steven Weber
Topic: 8345 Message: 8348

> I'm new to the group and I'm wondering if the ATS-4b is going to have another production run someday, or is Steve's Mountain Topper 2 bander a replacement for this?
>

Well, I guess I'll have to make more of the 4B's available at some point, but it will be a while, maybe early this coming winter. I'm taking mid May to September off to do some serious hiking and will be hard pressed to get the new MTR done and out the door by that time.

By all indications, it's about time I did a simple, inexpensive ultra-light rig and demand for that will be also high.

72, Steve KD1JV

8349. Re: [AT_Sprint] Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 19:05:07 UTC
From: Steven Weber
Topic: 8344 Message: 8349

> I am not sure whether Steve supports digital modes with the MTR, but the
> earlier ATS designs supporting digital modes are only able to transmit
> using the PocketDigi software on Pocket PC, Windows Mobile phone or
> laptop.

I'm still wavering as to keep the Pocketdigi interface in the MTR or not. I can't seem to quite trim the firmware down to under 4K so will still have to use a 8K chip. The cost difference is only about 50 cents, so not a big deal there. There is really no reason not to include the pocketdigi interface, except I wonder if anyone would actually use it or not?

I'm currently working with a stripped down version of the 3B.1 firmware. One of the changes I'm making is to how Split mode works. I've eliminated XIT since that is not a real useful function. I'm adding to the ability to toggle the receive frequency back to the transmit frequency quickly without loosing the RIT frequency so you can check if that frequency is still if clear or someone is calling you there. That should be handy if you find yourself in a pile up stituation at the top of a mountain.

Steve KD1JV

8350. Tools for building

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 19:23:55 UTC
From: JohnK
Topic: 8350 Message: 8350

I am seeking advice on any updates for selecting the best type of tool or tools that can be used for handling and positioning small parts (SMD parts). I have used wax to position parts with some success, and tweezers that can turn into launching devices for tiny parts. There must be some type of tweezer or tool (or procedure) that has been found that makes the job easier. I can't understand this...I never had these problems with the DX-40 I built in 1959. Any suggestions appreciated. John, W7COI

8351. MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 19:31:44 UTC
From: cloud runner
Topic: 8351 Message: 8351

I've eliminated XIT
since that is not a real useful function. I'm adding to the ability to
toggle the receive frequency back to the transmit frequency quickly without
loosing the RIT frequency so you can check if that frequency is still if
clear or someone is calling you there. That should be handy if you find
yourself in a pile up stituation at the top of a mountain.

Steve KD1JV

That's entirely right for my experiences. Another tinsy thought. While I have no interest or need for a rotating dial interface for the main tuning, the push buttons on this sort of a radio and in this service is better IMHO, I would use the RIT MUCH more, and more effectively, if it, just it, was a rotating dial with a spread of something like two to three khz total side to side. I can imagine it being a tiny pot and a tiny knob. If I could a) sweep quickly without fussing with buttons and menus, and b) know where it is at a glance, as opposed to trying to see if a dot is lit or not, and if it is, try to get it to cw enunciate where it is relative to my transmit fq, it would be a ton more useful in the heat of battle! As it is in the ATS3B I rarely use it because I have to keep turning it off to re-center it on the transmit FQ so that I know where it is, then turn it back on to tune someone calling me to the side.

73, Fred - kt5x

aka WS0TA

8352. RE: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 20:04:27 UTC
From: Dale Putnam
Topic: 8351 Message: 8352

Now THAT is very nice!!! Wish I could get that into the 3 and 4, 4b I have too....

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: just.one.hill@...
Date: Fri, 24 Feb 2012 12:31:44 -0700
Subject: [AT_Sprint] MTR and RIT

I've eliminated XIT
since that is not a real useful function. I'm
adding to the ability to
toggle the receive frequency back to the transmit
frequency quickly without
loosing the RIT frequency so you can check if that
frequency is still if
clear or someone is calling you there. That should be
handy if you find
yourself in a pile up stituation at the top of a
mountain.

Steve KD1JV

That's entirely right for my experiences. Another
tinsy thought. While I have no interest or need for a rotating dial
interface for the main tuning, the push buttons on this sort of a radio and in
this service is better IMHO, I would use the RIT MUCH more, and more
effectively, if it, just it, was a rotating dial with a spread of something like
two to three khz total side to side. I can imagine it being a tiny pot and
a tiny knob. If I could a) sweep quickly without fussing with buttons and
menus, and b) know where it is at a glance, as opposed to trying to see if a dot
is lit or not, and if it is, try to get it to cw enunciate where it is relative
to my transmit fq, it would be a ton more useful in the heat of battle! As
it is in the ATS3B I rarely use it because I have to keep turning it off to
re-center it on the transmit FQ so that I know where it is, then turn it back on
to tune someone calling me to the side.

73, Fred - kt5x

aka WS0TA

8353. RE: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 20:06:41 UTC
From: jaevans@pcisys.net
Topic: 8351 Message: 8353

Sounds like a software mod - assuming there is room for it.

72 - john - n0hj

>
> Now THAT is very nice!!! Wish I could get that into the 3 and 4, 4b I have
> too....
>
> --... ...--
> Dale - WC7S in Wy

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

8354. RE: [AT_Sprint] Tools for building

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 20:24:51 UTC
From: Dale Putnam
Topic: 8350 Message: 8354

Hi John, The tools changed a bit since the early 60s, now, I use a very light springed pair of tweezers, Cash Olson's solder paste, a cup warmer, and a source for hot air... (besides me talking.... cw doesn't do much hot air generation, and I don't do ssb)... like an embossing tool, or a hot air rework station. And some kind of container so they don't bounce, and fly too far away. It seems the little fellers bounce, fly, and are slippery and extremely nervous... taking all that into account, a very light amount of pressure, with pre positioned solder paste, will curtail a lot of the freedom they aspire to achieve. To pick out or choose a tweezer that is good, find one with a very light touch. The intention is to be able to feel the amount of pressure being put on the part, not masked by the pressure needed to overcome the strong spring. Surgical suppliers might be of help, Tech Tools might be too. Good Luck, and have a great day,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: kenney@...
Date: Fri, 24 Feb 2012 19:23:55 +0000
Subject: [AT_Sprint] Tools for building

I am seeking advice on any updates for selecting the best type of tool or tools that can be used for handling and positioning small parts (SMD parts). I have used wax to position parts with some success, and tweezers that can turn into launching devices for tiny parts. There must be some type of tweezer or tool (or procedure) that has been found that makes the job easier. I can't understand this...I never had these problems with the DX-40 I built in 1959. Any suggestions appreciated. John, W7COI

8355. Re: [AT_Sprint] Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 20:32:55 UTC
From: John Hestenes
Topic: 8344 Message: 8355

Steve:

When I hike I carry my iPhone or Android for several purposes already.

I plan to develop apps for both iPhone and Android smartphones
for a device like the MTR. They will be new native OS apps --
not PocketDigi and not using Pocket PC. If I understand it, the 2-band
MTR is potentially a good platform and I would rather build on it than
try other approaches.

The question in my last post was whether there will be an electronic
interface available in the MTR design for a wired external device
or whether there would be obvious tie-in points in the circuitry
to which I would be able to add my own circuitry on. I can add a
small daughter board to the Altoid design to handle the interface
(and perhaps some other processing capabilities, such as a DSP).

I recommend you have an 8K option --- very much worth my 50 cents.
I can code the interface to the external smartphone/device if there
is some room to do so. It would help me avoid adding it on a
daughter board.

I'm eager to buy one of your MTRs to gain experience and start
this development process. So I hope you finish it before you go
hiking so we can get the kits before summer.

Thanks,
John, KJ6CVB

On Feb 24, 2012, at 11:05 AM, Steven Weber wrote:

> > I am not sure whether Steve supports digital modes with the MTR, but the
> > earlier ATS designs supporting digital modes are only able to transmit
> > using the PocketDigi software on Pocket PC, Windows Mobile phone or
> > laptop.
>
> I'm still wavering as to keep the Pocketdigi interface in the MTR or not. I
> can't seem to quite trim the firmware down to under 4K so will still have to
> use a 8K chip. The cost difference is only about 50 cents, so not a big deal
> there. There is really no reason not to include the pocketdigi interface,
> except I wonder if anyone would actually use it or not?
>
> I'm currently working with a stripped down version of the 3B.1 firmware. One
> of the changes I'm making is to how Split mode works. I've eliminated XIT
> since that is not a real useful function. I'm adding to the ability to
> toggle the receive frequency back to the transmit frequency quickly without
> loosing the RIT frequency so you can check if that frequency is still if

> clear or someone is calling you there. That should be handy if you find
> yourself in a pile up stituation at the top of a mountain.
>
> Steve KD1JV
>
>

8356. Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 21:12:53 UTC
From: John Hestenes
Topic: 8344 Message: 8356

Vojtech OK1IAK:

I read through your links and their links. Good stuff.

John Hestenes, KJ6CVB

>For a brief description of the communication interface, see
>http://www.kufr.cz/~ok1iak/HAM/ATS3a-digital/index.php3

8357. Re: Tools for building

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 21:29:07 UTC
From: n41w124
Topic: 8350 Message: 8357

My favorite surface mount tool is an old pair of tweezers, about 4.5 inches long. The tips are ground down thin, smoothed and squared on all sides. The grinding wheel converted a $1 pair of tweezers into a $60 pair of tweezers in a few minutes. Its easy to slide a part into position where the soldering tip is waiting for it. A paper or cloth painter's dropcloth on the floor and around the work area helps when something does go astray. Dollar Store reading glasses and a 10X lens are useful too.

Tom, K9AC

--- In AT_Sprint@yahoogroups.com, "JohnK" <kenney@...> wrote:

> for handling and positioning small parts (SMD parts). John, W7COI
>

8358. Re: [AT_Sprint] Tools for building

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 21:42:53 UTC
From: Stephen Wandling
Topic: 8350 Message: 8358

My style of SMD construction is as Dale says below.

I don't use any pan or such to capture escaping parts. If you have a part spring away from you, you may not ever find it. But, I have had good luck with putting a piece from an old nylon stocking/pantyhose over the end of the vacuum cleaner pipe and sweeping the area. You will often see a part if it's still on your workbench, but it's on the floor and especially on carpeted areas then I find a benefit from the vacuum system.

72 Stephen VE7NSD

On 24/02/2012 12:24 PM, Dale Putnam wrote:
> Hi John, The tools changed a bit since the early 60s, now, I use a very light springed pair of tweezers, Cash Olson's solder paste, a cup warmer, and a source for hot air... (besides me talking.... cw doesn't do much hot air generation, and I don't do ssb)... like an embossing tool, or a hot air rework station. And some kind of container so they don't bounce, and fly too far away. It seems the little fellers bounce, fly, and are slippery and extremely nervous... taking all that into account, a very light amount of pressure, with pre positioned solder paste, will curtail a lot of the freedom they aspire to achieve. To pick out or choose a tweezer that is good, find one with a very light touch. The intention is to be able to feel the amount of pressure being put on the part, not masked by the pressure needed to overcome the strong spring. Surgical suppliers might be of help, Tech Tools might be too. Good Luck, and have a great day,
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: kenney@...
> Date: Fri, 24 Feb 2012 19:23:55 +0000
> Subject: [AT_Sprint] Tools for building
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> I am seeking advice on any updates for selecting the best type of tool or tools that can be used for handling and positioning small parts (SMD parts). I have used wax to position parts with some success, and tweezers that can turn into launching devices for tiny parts. There must be some type of tweezer or tool (or procedure) that has been found that makes the job easier. I can't understand this...I never had these problems with the DX-40 I built in 1959. Any suggestions appreciated. John, W7COI
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8359. Re: [AT_Sprint] Tools for building

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 21:51:40 UTC
From: cloud runner
Topic: 8350 Message: 8359

Be sure you have a Doofus tool. I made mine with a coat hanger a safety pin, and a fishing weight.

I use a large cookie sheet as my work surface. Large conductive surface with small rolled up edges kept all the parts where they should be, drops remained within bounds and a cinch to see. The stainless steel surface handled the static question. Every now and then there was a strained looking fella staring back at me from below, much older than I am. Dunno who that was.

My favorite tool is a pair of surgical forcepts. I use them while others use tweezers. they have no spring tension, so I can be very gentle, and drops don't flip away. I don't close them, you understand, just use them like a pair of miniature pliers.

But my homebrew Doofus is the single most indespensible tool.

"I'm a Beginner," sung to the tune of "I'm a Believer ..." ;-)

73 Fred - kt5x

>> I am seeking advice on any updates for selecting the best type of
>> tool or tools that can be used for handling and positioning small parts
>> (SMD parts). I have used wax to position parts with some success, and
>> tweezers that can turn into launching devices for tiny parts. There must
>> be some type of tweezer or tool (or procedure) that has been found that
>> makes the job easier. I can't understand this...I never had these
>> problems with the DX-40 I built in 1959. Any suggestions appreciated.
>> John, W7COI

8360. Re: [AT_Sprint] Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 22:04:05 UTC
From: Steven Weber
Topic: 8344 Message: 8360

>I plan to develop apps for both iPhone and Android smartphones

Well, the main question is how to get data in and out of the smartphones? The approch Vojtec took was to use the sound card capacity of PDA's and implemented an audio tone based modem to talk to the rig via a paddle jack port. I don't know if that approch is possible with a smartphone, since I don't own one nor ever plan to. The down side of the audio modem is it can be a bit tempermental to get it to work well.

The processor which will be in the MTR is a TI MSP430F2132, which includes a universal UART, capable of a number of serial protocalls, including IrDA, which might be a possibility. The UART ports are being used to drive the LED display segments, but that's not a problem.

At one point I tried to build a bluetooth transceiver into the Altoids case with the ATS-3B board. The bluetooth module I stripped out of a really cheap headset for use with a cell phone. It might have worked if the something in the bluetooth didn't radiate so much EMI it rendered the receiver in the rig useless. I didn't bother trying to figure out a way to build it into it's own shielded box.

Anyway, there are possibilities.

Steve KD1JV

8361. Re: [AT_Sprint] Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 22:27:43 UTC
From: Colin Tuckley
Topic: 8344 Message: 8361

On 24/02/12 22:04, Steven Weber wrote:

> The processor which will be in the MTR is a TI MSP430F2132, which
> includes a universal UART, capable of a number of serial protocalls,
> including IrDA, which might be a possibility. The UART ports are being
> used to drive the LED display segments, but that's not a problem.

Steve, is there any way you can keep the UART ports free and track them
to some header pins. They would be useful for other things as well as
digi-modes. Things like loading the memories or setting frequencies.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

Catalogue: How to tell one sort of cat from another.

8362. Re: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 22:31:47 UTC
From: Steven Weber
Topic: 8351 Message: 8362

As it is in the ATS3B I rarely use it because I have to keep turning it off to re-center it on the transmit FQ so that I know where it is, then turn it back on to tune someone calling me to the side.

The 3B flashes a "0" on the display when Rx and Tx are equal in split mode. Though there is no easy way to determine the amount of offset you have at a give point in time, or if your above or below the Tx frequency.

Maybe what I should do is make the top segment of the display light when your tuned above the Tx frequency and the bottom segment when below it. In addition to ennuciating the delta frequency with the AFA. Doing the AFA might be a little tricky, as I'm now using the menu button to toggle between RIT freq and Tx=Rx frequency, but I'll think about it.

As for a seperate RIT tuning control, that would not be easy to add, in fact, maybe impossible.

Steve

8363. Re: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 22:40:30 UTC
From: Michael Harnage
Topic: 8351 Message: 8363

If one has ever used an Elecraft K2 with A/B vfo and split/normal mode that is exactly how my version of the ATS2/3x firmware works. Steve, feel free to use it if it helps. The only down side is that I do not have the digi mode code in my firmware as I don't quite get doing digi with a minimalist rig.

-mike/w1mt

8364. RE: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 22:44:58 UTC
From: Dale Putnam
Topic: 8351 Message: 8364

Thinking out loud here, and you know where that gets me.... but to continue, could the direction of the tuning button or selection of the up or down, lite either a dot or one of the segments, when going to rit? I would rather know what the freq of the rit is, rather than the diff. if the rx is at 033 and the offset is at 035... ok, that works for me.

--... ...--
Dale - WC7S in Wy
To033AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Fri, 24 Feb 2012 17:31:47 -0500
Subject: Re: [AT_Sprint] MTR and RIT

As it is in the ATS3B I rarely use it because I
have to keep turning it off to re-center it on the transmit FQ so that I know
where it is, then turn it back on to tune someone calling me to the
side.

The 3B flashes a "0" on the display when Rx
and Tx are equal in split mode. Though there is no easy way to determine the
amount of offset you have at a give point in time, or if your above or below the
Tx frequency.

Maybe what I should do is make the
top segment of the display light when your tuned above the Tx frequency and
the bottom segment when below it. In addition to ennuciating the delta frequency
with the AFA. Doing the AFA might be a little tricky, as I'm now using the
menu button to toggle between RIT freq and Tx=Rx frequency, but I'll think about
it.

As for a seperate RIT tuning control, that
would not be easy to add, in fact, maybe impossible.

Steve

8365. RE: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 23:05:57 UTC
From: Jake, ON4YZ
Topic: 8351 Message: 8365

☐I don't quite get doing digi with a minimalist rig☐

That☐s my case too. That means carrying extra gears and struggling with more connection wires. Not really my cup of tea. I☐m glad to see that the MT has no connectors on the PCB. Thanks to that I☐m thinking to make an all-in-one box : MT board, power unit (LIPO), battery discharge control, solar charger control, active audio filter, antenna, antenna matching unit, micro-paddle, micro str8 key. Every function being nicely internally connected as due so as to have no single external wire.

How many are using digi-mode on the ATS2 and ATS3?

73 de Jake ☐ ON4YZ

Aucun virus trouvé dans ce message.
Analyse effectuée par AVG - www.avg.fr
Version: 2012.0.1913 / Base de données virale: 2114/4827 - Date: 23/02/2012

8366. RE: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 23:28:16 UTC
From: mbhayden
Topic: 8351 Message: 8366

I would rather have well executed and efficient RIT and split indication capabilities than digital modes in the MTR, myself. I find its implementation on my 3b a little sub optimum, although I do use it.

mike
AK3F

8367. RE: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-24 23:31:45 UTC
From: bgriffin
Topic: 8351 Message: 8367

I use the digi modes. Not a lot, but its nice to have when I want it.

8368. Re: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 00:01:36 UTC
From: cloud runner
Topic: 8351 Message: 8368

Steve,

The RIT is fine as is for casual rag chewing. When it becomes a problem is in the heat of a SOTA pile-up. In that circumstance, three, four, maybe ten callers, I have seconds to do something with the RIT to make a station copiable, copy it, and respond. I don't want anything to annunciate as it would be untimely QRM.

A rotary is most convenient, quicker, visual and physical, but if it can't happen, then it can't.

The up and down buttons are not as convenient, but they can work. I just don't know where I am, and even the single dot is generally hard to see in the bright sun light (and given that I am generally sitting adjacent to the rig and have to turn my head to see the rig.

I have never seen the "O" on the digit when the RIT was engaged, but I may not have tuned across it. That is interesting. I'll fuss with it and look for it!Now, I wonder what else might be illuminated which might indicate that it is up or down, and perhaps some gist of by how much. It would be enough if just several clicks to either side were clearly knowable.

I don't know what segments can be programmed independently. So i am simply speculating, ... the left half of the "O" for down a little, then just an end vertical segment if down further, then just a dot on that side if further still, opposite for the other side. when far away little is lit except a dot on that side, but as get close now that side is illuminating more and more until at center the O, then the other side if keep on going, diminishing the farther one gets away until just a dot on that side.

You know better what can be done.

(to your other question, I, for one, have never attempted the digi-modes with the ATS3, and likely wouldn't. I am still interested in the daughter board talked about with the ATS4B that would screen on the LCD.

73 Fred - kt5x

As it is in the ATS3B I rarely use it because I have to keep turning it off to re-center it on the transmit FQ so that I know where it is, then turn it back on to tune someone calling me to the side.

The 3B flashes a "0" on the display when Rx and Tx are equal in split mode. Though there is no easy way to determine the amount of offset you have at a give point in time, or if your above or below the Tx frequency.

Maybe what I should do is make the top segment of the display light when your tuned above the Tx frequency and the bottom segment when below it. In addition to ennuciating the delta frequency with the AFA. Doing the AFA might be a little tricky, as I'm now using the menu button to toggle between RIT freq and Tx=Rx frequency, but I'll think about it.

As for a seperate RIT tuning control, that would not be easy to add, in fact, maybe impossible.

Steve

Steve,

8369. Re: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 01:55:41 UTC
From: Steven Weber
Topic: 8351 Message: 8369

I don't know if having A/B VFO's is any less confusing or easier to operate than simple RIT. The real trouble is simply the fact of having limited display abilities. RIT is mostly used just to fine tune a station who may not have come back close enough to copy clearly. I think maybe the best thing to do is to limit the RIT range to no more than say +/- 1500 Hz. On CW you don't want to stray too far from the Tx freq or your into someone elses QSO. Or have gone past several of them. Limiting the RIT range and having some indication of if your above or below the Tx freq should be good enough for 99% of the time and the other 1%? Well, there are limitations to a shirt pocket rig!

Steve
If one has ever used an Elecraft K2 with A/B vfo and split/normal mode that is exactly how my version of the ATS2/3x firmware works.

8370. Re: [AT_Sprint] Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 02:02:35 UTC
From: Steven Weber
Topic: 8344 Message: 8370

> Steve, is there any way you can keep the UART ports free and track them
> to some header pins. They would be useful for other things as well as
> digi-modes. Things like loading the memories or setting frequencies.

Nope, not a chance. Those ports are needed to drive LED display segments and there is not a square mm of board space left to mount even two header pins on. It's actually quite amazing all the required parts fit on the board! If you really want to gain access to the UART ports and rewrite the firmware to use them, that is possible, but is not a primary design goal for this rig.

Steve

8371. Four Days in May

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 02:35:02 UTC
From: poikaa
Topic: 8371 Message: 8371

This is for Steve, KD1JV and any one else who will be at Dayton this year.... Who is going?
And can we have some sort of identifier on our shirts or hats to link us to this group?
And for Steve.... Will you be there with the new Mountain Topper Rig?

73 er... 72 Rod KB8DNS

8372. Re: [AT_Sprint] Four Days in May

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 02:50:16 UTC
From: Chris Fowler
Topic: 8371 Message: 8372

This is one group that can do ad hoc swag:

http://www.cafepress.com/

Chris

8373. Re: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 03:39:18 UTC
From: Bob Flye
Topic: 8351 Message: 8373

Steve,
I have an ATS-4 and used it for the first time with a straight key. No RIT. I was wondering if on the MTR, that RIT could be enabled when using a straight key?
73
Bob, AD7BP

"You are boldly going where no man knows what he is doing" -Maarten Schmidt, Palomar astronomer-

8374. Re: [AT_Sprint] MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 03:53:49 UTC
From: Steven Weber
Topic: 8351 Message: 8374

> I have an ATS-4 and used it for the first time with a straight key. No
> RIT. I was wondering if on the MTR, that RIT could be enabled when using a
> straight key?
> 73
> Bob, AD7BP

That's odd, using a SK shouldn't disable RIT. Will have to check that.
Steve

8375. Re: [AT_Sprint] Four Days in May

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 04:14:08 UTC
From: Steven Weber
Topic: 8371 Message: 8375

Yes, I will be there this year. Hopefully I'll be a bit more coherant and perky than 2 years ago. I thought it was just the long bus ride to get there, the late nights and early mornings which was making me feel odd, but it turned out I was suffering from an infected liver abcess, which was just starting to make its presence apparent. A week later I was in the ER and lucky to still be alive.

I will of course be with Hendricks kits, pushing the through hole rigs and you will find me in the bar after things start to wind down.

If I have any MTR's left to bring, I will bring some. But since I will be traveling by bus to get there and will be leaving to go do some hiking in VA right after, I will be traveling light. Say, anyone here going to Dayton and will be passing near Wytheville, VA on the way home?

Steve KD1JV

> This is for Steve, KD1JV and any one else who will be at Dayton this
> year.... Who is going? And can we have some sort of identifier on our
> shirts or hats to link us to this group?
> And for Steve.... Will you be there with the new Mountain Topper Rig?
>

8376. Re: [AT_Sprint] Re: Tools for building

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 04:41:07 UTC
From: Rich
Topic: 8350 Message: 8376

Along the lines of a hardware store being a play ground...you may find interesting "tweezers" (AKA "forceps") from Fine Science Tools: http://www.finescience.com/

After you recover from the sticker shock of some of the fine, high quality, forceps, check out the Student Instruments for cheaper tools. I'm suggesting this for ideas more than purchases. A cheap pair of forceps (metal or plastic) can be shaped with a grinding wheel (coarse), files, and sandpaper (fine). An O-ring over the end can be rolled up towards the tips to make a gentle self-closing tool.

Rich
NU6T

On 2/24/2012 1:29 PM, n41w124 wrote:
>
> My favorite surface mount tool is an old pair of tweezers, about 4.5
> inches long. The tips are ground down thin, smoothed and squared on
> all sides. The grinding wheel converted a $1 pair of tweezers into a
> $60 pair of tweezers in a few minutes. Its easy to slide a part into
> position where the soldering tip is waiting for it. A paper or cloth
> painter's dropcloth on the floor and around the work area helps when
> something does go astray. Dollar Store reading glasses and a 10X lens
> are useful too.
>
> Tom, K9AC
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>,
> "JohnK" <kenney@...> wrote:
>
> > for handling and positioning small parts (SMD parts). John, W7COI
> >
>
>

8377. RE: [AT_Sprint] Tools for building

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 04:44:39 UTC
From: Charles Moizeau
Topic: 8350 Message: 8377

John,

Always on my workbench is a roll of 3-M blue painters' masking tape (other kinds of tape will NOT do), obtainable at just about any hardware store. I have a two-inch wide roll, but perhaps one-inch wide will suit your SMD needs. From it cut a narrow strip transversely, center it and stick it on the top of a component (either SMD or through-hole), lift the component by the tape ends, transport it to its desired location on the circuit board, strap it accurately and firmly in place by pressing the tape ends to the board, or to components that already have been mounted on the board, solder and then remove the tape (which is re-usable multiple times).

If you want to move along faster, cut a dozen or so of these tape strips, write a component's identity on the smooth back side of each strip with a ball-point pen and stick them on the designated components. Lay these taped pieces out in a line corresponding to their positioning sequence and proceed as I've indicated above.

It doesn't get any simpler than that!

72,

Charles, W2SH

To: AT_Sprint@yahoogroups.com
From: kenney@...
Date: Fri, 24 Feb 2012 19:23:55 +0000
Subject: [AT_Sprint] Tools for building

I am seeking advice on any updates for selecting the best type of tool or tools that can be used for handling and positioning small parts (SMD parts). I have used wax to position parts with some success, and tweezers that can turn into launching devices for tiny parts. There must be some type of tweezer or tool (or procedure) that has been found that makes the job easier. I can't understand this...I never had these problems with the DX-40 I built in 1959. Any suggestions appreciated. John, W7COI

8378. Re: Tools for building

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 06:51:59 UTC
From: poikaa
Topic: 8350 Message: 8378

Here is my tool "crib".... Toothpicks, jewelers loupe, tweezers, lens from a projection TV, doofus, where's Waldo glasses, 1 inch deep pan, temperature controlled soldering pencil, solder wick (two sizes), needles, pins, magnets, needle nose pliers, hemostats, tape of all kinds, bright desk lamp, lighted magnifying lamp, desk, chair, egg crate bins, pencils, paper, two sided tape (to hold pan), scissors, liquid solder flux, solder paste, fine solder, Fondue hot plate (temperature controlled), waste basket, aspirin, Coca Cola, Band aids, burn salve, KD1JV's email....

I'll think of more!

73 er... 72 Rod KB8DNS

--- In AT_Sprint@yahoogroups.com, "JohnK" <kenney@...> wrote:
>
> I am seeking advice on any updates for selecting the best type of tool or tools that can be used for handling and positioning small parts (SMD parts). I have used wax to position parts with some success, and tweezers that can turn into launching devices for tiny parts. There must be some type of tweezer or tool (or procedure) that has been found that makes the job easier. I can't understand this...I never had these problems with the DX-40 I built in 1959. Any suggestions appreciated. John, W7COI
>

8379. Re: MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 11:29:48 UTC
From: Yannick
Topic: 8351 Message: 8379

Steven,

I don't own one of your rig yet and I am no specialist in ergonomic.
However, from what I understand but not knowing what is actually possible or not, this is what I would try to do starting from a blank page :
- only implementing RIT
- if no shift, then when TX the display (8 segments LED I think) shows 0 or = (two lowers horizontal bars)
- if positive RIT shift, when TX the display shows blinking and alternating U and the number of KHz for the shift (up to 9)
- if negative RIT shift, when TX the display shows blinking and alternating d and the number of KHz for the shift.

I agree you don't need a precise indication of where you listen, but knowing you are "not to far" is interesting. People just wanting to adjust the tone of the received station will now that they don't have to go further than "1" and people wanting to work split will now if they are just "UP 2" or much further...

I know that in order to keep things usable for day to day operation you have to keep simple. My own taste is that without any RIT/SPLIT it would be ok for the style of operation I am intenting in QRP.

By the way, you can count with me for one MTR. However I hope I will not be insulting using it as a "Coconut Top Rig" or "Rice Crop Rig" since I am just planning to do occasional QRP from my in-laws farm...

Thanks for listening to the owners or at list future owners comments.
73,
Yan - XV4Y.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> I don't know if having A/B VFO's is any less confusing or easier to operate than simple RIT. The real trouble is simply the fact of having limited display abilities. RIT is mostly used just to fine tune a station who may not have come back close enough to copy clearly. I think maybe the best thing to do is to limit the RIT range to no more than say +/- 1500 Hz. On CW you don't want to stray too far from the Tx freq or your into someone elses QSO. Or have gone past several of them. Limiting the RIT range and having some indication of if your above or below the Tx freq should be good enough for 99% of the time and the other 1%? Well, there are limitations to a shirt pocket rig!
>
> Steve

> If one has ever used an Elecraft K2 with A/B vfo and split/normal mode that is exactly how my version of the ATS2/3x firmware works.
>

8380. Re: [AT_Sprint] Re: MTR and RIT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 13:01:09 UTC
From: Peter Martin
Topic: 8351 Message: 8380

Steve,
As an aside. I used the RIT in anger yesterday on the ATS4 (what a fantastic rig!), and was glad that I could glance down at the shift in between QSO's.

http://youtu.be/HKSE1PZa058

One thing that's started to bug me, unintentionally, is my use of the up/down shift switches.

I discovered early on that these switches work best as toggle switches, not push switches. I now have got into the habit of pulling back on one switch to go down, and pushing forward to go up. Of course that doesn't work. The frequency changes in the direction of the switch function, not which way you push or pull it!
I'd love to have the up/down function on one single switch and actually wonder if those little switches are DPST and could already do that without too much modification. It's something I would mod on my MTR if I'm lucky enough to bag one :-)

Pete
G4ISJ

On Sat, Feb 25, 2012 at 11:29 AM, Yannick <yannick.devos@...> wrote:

> Steven,
>
> I don't own one of your rig yet and I am no specialist in ergonomic.
> However, from what I understand but not knowing what is actually possible
> or not, this is what I would try to do starting from a blank page :
> -
>

8381. Re: Tools for building

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 15:52:54 UTC
From: William
Topic: 8350 Message: 8381

Great list. To these I would also add "Chip Qwik", a low temp solder which allows you to remove IC's without special equipment. The only Doofus I've used is the one that holds the soldering iron :-)

Bill, WV1N

--- In AT_Sprint@yahoogroups.com, "poikaa" <kb8dns@...> wrote:
>
>
>
> Here is my tool "crib".... Toothpicks, jewelers loupe, tweezers, lens from a projection TV, doofus, where's Waldo glasses, 1 inch deep pan, temperature controlled soldering pencil, solder wick (two sizes), needles, pins, magnets, needle nose pliers, hemostats, tape of all kinds, bright desk lamp, lighted magnifying lamp, desk, chair, egg crate bins, pencils, paper, two sided tape (to hold pan), scissors, liquid solder flux, solder paste, fine solder, Fondue hot plate (temperature controlled), waste basket, aspirin, Coca Cola, Band aids, burn salve, KD1JV's email....
>
> I'll think of more!
>
> 73 er... 72 Rod KB8DNS
>
> --- In AT_Sprint@yahoogroups.com, "JohnK" <kenney@> wrote:
> >
> > I am seeking advice on any updates for selecting the best type of tool or tools that can be used for handling and positioning small parts (SMD parts). I have used wax to position parts with some success, and tweezers that can turn into launching devices for tiny parts. There must be some type of tweezer or tool (or procedure) that has been found that makes the job easier. I can't understand this...I never had these problems with the DX-40 I built in 1959. Any suggestions appreciated. John, W7COI
> >
>

8382. Re: ATS-4 .. will there be a re-run?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 10:13:38 UTC
From: John Farmer
Topic: 8345 Message: 8382

Thanks Steve. I'll monitor the group and look forward to hearing of the return of the 4B's at some time in the future.

I'll be hiking and camping in the Australian outback June through August. I'm taking your PFR-3 design with me, along with some half-wave endfed wires. Should be fun.

Enjoy your hiking trip!

73,

John
VK7JB

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:

>
> Well, I guess I'll have to make more of the 4B's available at some point,
> but it will be a while, maybe early this coming winter. I'm taking mid May
> to September off to do some serious hiking and will be hard pressed to get
> the new MTR done and out the door by that time.
>
> By all indications, it's about time I did a simple, inexpensive ultra-light
> rig and demand for that will be also high.
>
> 72, Steve KD1JV
>

8383. Re: Tools for building

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 17:01:07 UTC
From: kk7ef
Topic: 8350 Message: 8383

John,
I have decided (while probably not necessary) to use a miniscule amount of paste flux applied to the pads prior to "tinning" the first pad.I have had great success in using a match stick/toothpick with a dab of paste flux on the tip to grab and place parts; no pressure via tweezers to make it zing. It will be alcohol washed of with the rest of the remaining flux on the pcb. The problem I had at first is flipping the cardboard while peeling the plastic exposing the part. I have lost only one cap before I "lernt". You guys'talk on taking it (4b)on skiing expeditions and SOTA jaunts makes my mouth water. Tim

--- In AT_Sprint@yahoogroups.com, "JohnK" <kenney@...> wrote:
>
> I am seeking advice on any updates for selecting the best type of tool or tools that can be used for handling and positioning small parts (SMD parts). I have used wax to position parts with some success, and tweezers that can turn into launching devices for tiny parts. There must be some type of tweezer or tool (or procedure) that has been found that makes the job easier. I can't understand this...I never had these problems with the DX-40 I built in 1959. Any suggestions appreciated. John, W7COI
>

8384. MTN Building Method

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 17:19:00 UTC
From: Tom
Topic: 8384 Message: 8384

I have just finished building 4 different SoftRocks and am anxiously looking forward to building a couple of the MTN rigs and have a few questions.
1. Looking at the pictures of Steve's build, I'm wondering if most of you will build using soldering iron and tack down each component individually, or do most use reflow methods?
2. If using a soldering iron with these size parts (most of the SoftRocks used larger parts) is it possible / helpful / recommended / not recommended to initially use a little solder paste and iron to tack down the first side of the part rather than lightly tin one pad, position the part, and reflow it?
3. Although I "get" the utility and low cost of using an Altoids tin for the enclosure, I for one would gladly pay for a more robust enclosure purposely designed for this rig. Is there any broad desire for a different enclosure, or is anyone planning to offer one?
Can't wait to get one or more of these in my hands! Hoping to do some SOTA this summer.
Tnx and 73,
Tom NØBS

8385. Kester 60/40 .015" Solder for SALE

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 17:49:00 UTC
From: Dan Boardman
Topic: 6765 Message: 8385

Kester 60/40 .015 solder rosin-core (perfect for SMD work) for sale - I have way more than I will use in my lifetime - will sell 3oz. coils for $10 (including postage) shipped anywhere in the US (1st class mail). Probably have 6-8 coils I can sell - this is a very small diameter solder.

Please email me directly.

Thanks much

Dan - KI4YZE

8386. Re: [AT_Sprint] MTN Building Method

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 18:05:57 UTC
From: Stephen Wandling
Topic: 8384 Message: 8386

Mint tins are fine for me. My ATS3B looks like it's travelled a lot in a back pack, but it works just fine.

Because it is so much faster/easier I use the solder paste, embossing heat gun method. The only use I have for the iron is when I am troubleshooting and want to be sure that all connections are good. A quick, hot iron does that.

72 Stephen VE7SD
On 25/02/2012 9:19 AM, Tom wrote:
> I have just finished building 4 different SoftRocks and am anxiously looking forward to building a couple of the MTN rigs and have a few questions.
> 1. Looking at the pictures of Steve's build, I'm wondering if most of you will build using soldering iron and tack down each component individually, or do most use reflow methods?
> 2. If using a soldering iron with these size parts (most of the SoftRocks used larger parts) is it possible / helpful / recommended / not recommended to initially use a little solder paste and iron to tack down the first side of the part rather than lightly tin one pad, position the part, and reflow it?
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> Can't wait to get one or more of these in my hands! Hoping to do some SOTA this summer.
> Tnx and 73,
> Tom N?BS
>
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> Yahoo! Groups Links
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8387. Re: [AT_Sprint] Kester 60/40 .015" Solder for SALE

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 18:07:27 UTC
From: Stephen Wandling
Topic: 6765 Message: 8387

Dan,

How about I PayPal you $11 and you send it to me in British Columbia, Canada?

72 Stephen VE7NSD

On 25/02/2012 9:49 AM, Dan Boardman wrote:
> Kester 60/40 .015 solder rosin-core (perfect for SMD work) for sale - I
> have way more than I will use in my lifetime - will sell 3oz. coils for
> $10 (including postage) shipped anywhere in the US (1st class mail).
> Probably have 6-8 coils I can sell - this is a very small diameter
> solder.
>
>
>
> Please email me directly.
>
>
>
> Thanks much
>
>
>
> Dan - KI4YZE
>
>
>
>
>

8388. Re: [AT_Sprint] MTN Building Method

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 19:47:17 UTC
From: Charles Nolin
Topic: 8384 Message: 8388

Hi Tom,

I am a very avid builder. I have also built loads of SoftRocks, MOBO, Sprints, Altoids Amps, and
Juma RXTX2, Juma Amps, all SMD, just way too many to list.
I only build by hand soldering everything. I like the way my soldering joints look after I clean and polish
everything that was soldered. I have control of my part alignment. I try to get each part aligned exactly.
Just the way I have done it, not that it is right but, is my way.
As for the enclosure have you looked at the American Morse? They are out of stock as of right now
http://americanmorse.com/
but I hope with the release of the latest rig, Doug will get them back soon..
I have put a couple of pictures in my folder, one is a Sprint 3b1 in an American Morse enclosure, and
you can see how it comes out hand soldered,

Good luck and enjoy your build,
Chuck Nolin
WA6LTV/4

From: Tom <tmoll150@...>
To: AT_Sprint@yahoogroups.com
Sent: Saturday, February 25, 2012 12:19 PM
Subject: [AT_Sprint] MTN Building Method

I have just finished building 4 different SoftRocks and am anxiously looking forward to building a couple of the MTN rigs and have a few questions.
1. Looking at the pictures of Steve's build, I'm wondering if most of you will build using soldering iron and tack down each component individually, or do most use reflow methods?
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Can't wait to get one or more of these in my hands! Hoping to do some SOTA this summer.
Tnx and 73,
Tom NØBS

8389. Re: [AT_Sprint] MTN Building Method

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 19:58:24 UTC
From: Steven Weber
Topic: 8384 Message: 8389

1. Looking at the pictures of Steve's build, I'm wondering if most of you will build using soldering iron and tack down each component individually, or do most use reflow methods?

I ran out of solder paste, so the board you see in the photo was all hand soldered. I supply enough 0.015" solder for all the SMT parts and will likely include a few inches of solder wick with this kit to clean up the shorts on the leads of the DDS chip and now the processor too.

3. Although I "get" the utility and low cost of using an Altoids tin for the enclosure, I for one would gladly pay for a more robust enclosure purposely designed for this rig. Is there any broad desire for a different enclosure, or is anyone planning to offer one?

The tin is actually quite robust and if you look through the photo section of the group, you can see a lot of guys have customized thier tins quite nicely. I have been thinking of eventually having a case made and I'm sure most everyone would get one. Not supplying the case with the kit is a little risky, as it is possible to get stuck with a lot of unsold cases.

One reason for not supplying a case right now is I got a message from Ten-Tec a few weeks ago saying if I wanted more ATS-4 cases made in time to take to Dayton, I'd have to do it right away since thier sheet metal shop was getting back logged. Having a new case made takes a month longer, as they have to produce drawings and make the punches.

Steve KD1JV

8390. Re: MTN Building Method

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 22:31:37 UTC
From: poikaa
Topic: 8384 Message: 8390

I built my ATS-3 all by point to point soldering! I am entertaining my next build with my "Fondue" heating plate.... I know it to work but just with a bit of trepidation!
My ATS-3 work out right off the start!

73 Rod KB8DNS

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> 1. Looking at the pictures of Steve's build, I'm wondering if most of you
> will build using soldering iron and tack down each component individually,
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> I ran out of solder paste, so the board you see in the photo was all hand
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> 3. Although I "get" the utility and low cost of using an Altoids tin for the
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> most everyone would get one. Not supplying the case with the kit is a little
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> take to Dayton, I'd have to do it right away since thier sheet metal shop
> was getting back logged. Having a new case made takes a month longer, as
> they have to produce drawings and make the punches.
>
> Steve KD1JV
>

8391. Re: Four Days in May

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 22:05:57 UTC
From: Tom
Topic: 8371 Message: 8391

Steve,
I am thinking about going but haven't finalized plans yet. I live at Smith Mountain Lake VA and Wytheville would not be too far out of my way on the way home.
I am checking to see if I can get anyone from around here to ride with me to share the gas cost.
Tom NØBS

>
Say, anyone here going to Dayton and
> will be passing near Wytheville, VA on the way home?
>
> Steve KD1JV

8392. Re: [AT_Sprint] MTN Building Method

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-25 23:26:29 UTC
From: Gil WA5YKK
Topic: 8384 Message: 8392

1. Looking at the pictures of Steve's build, I'm wondering if most of you will build using soldering iron and tack down each component individually, or do most use reflow methods?

I ran out of solder paste, so the board you see in the photo was all hand soldered. I supply enough 0.015" solder for all the SMT parts and will likely include a few inches of solder wick with this kit to clean up the shorts on the leads of the DDS chip and now the processor too.

3. Although I "get" the utility and low cost of using an Altoids tin for the
enclosure, I for one would gladly pay for a more robust enclosure purposely designed for this rig. Is there any broad desire for a different enclosure, or is anyone planning to offer one?

The tin is actually quite robust and if you look through the photo section of the group, you can see a lot of guys have customized thier tins quite nicely. I have been thinking of eventually having a case made and I'm sure most everyone would get one. Not supplying the case with the kit is a little
risky, as it is possible to get stuck with a lot of unsold cases.

One reason for not supplying a case right now is I got a message from Ten-Tec a few weeks ago saying if I wanted more ATS-4 cases made in time to take to Dayton, I'd have to do it right away since thier sheet metal shop was getting back logged. Having a new case made takes a month longer, as they have to produce drawings and make the punches.

Steve KD1JV

Steve;

While I'm thinking my way through a renovation of both "shacks" here on my gritty sand island, the thought crossed my mind about two factors which are the main ones with this type of kit. One is the size dilemma, where we encounter jeweler's headache physical problems in sheer handling of the parts. A sneeze can cause huge problems, along with all the other instances in which Murphy can cause a micro-part to disappear. The other problem is of cost, not just paying for a part that went someplace else, but also takes quite awhile to find a source for it. In order to reduce most of these irritations, the government has had a long term program going at its different labs in which the person who assembles the given device does so in a chamber that surrounds the work area, and there is all but zero air flow or other chance of a gust of air to disturb the tiny parts.
My sister worked in a couple of those little places during the course of her career, and the tales she tells of being ultra careful are

a bit incredible. Essentially, whenever anyone worked in a transparent enclosure, the first rule is patience, the second one is "place the part carefully". Her co-workers were glad when they finished with their projects, involving the idea of using magnifying lenses where needed, at least one barrier for the immediate area of parts, and slanted sides for the higher section, to make a "flying part" easier to find and pick up.

As I figure out what system will work best, I plan to have plain ole computer exhaust fans going, to take heat and fumes out, but not contribute to vibration.

The Altoids tin is neat and attractive, but has the little problem of not being robust, "take a fall and not become an interesting item to look at". The cases that you had Ten-Tec make are within 90% of what I envision as being needed, so stick to that avenue and maybe we can all get different ideas of "shirt pocket radio" for whatever band is open and active.
I rather expect to have visitors walk into my "kit area" in this one cabin, ask what the thin, transparent plastic sheeting is about, then I can enjoy boring them right out of the room - unless they want to watch something exotic in action, maybe get bit by the "ham bug'!

73's
Gil WA5YKK

8393. Re: Four Days in May

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 00:06:25 UTC
From: poikaa
Topic: 8371 Message: 8393

Hi Steve!

If you do mind a request, I would like to purchase a Mountain Topper at the Four Days in May.... 40 and 20 meters would be perfect and I will be at Dayton this year as I have already paid for a motel and have a seat in the van! Seventh year in a row for me but this will be my third at the Four Days in May!

72 Rod KB8DNS

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Yes, I will be there this year. Hopefully I'll be a bit more coherant and
> perky than 2 years ago. I thought it was just the long bus ride to get
> there, the late nights and early mornings which was making me feel odd, but
> it turned out I was suffering from an infected liver abcess, which was just
> starting to make its presence apparent. A week later I was in the ER and
> lucky to still be alive.
>
> I will of course be with Hendricks kits, pushing the through hole rigs and
> you will find me in the bar after things start to wind down.
>
> If I have any MTR's left to bring, I will bring some. But since I will be
> traveling by bus to get there and will be leaving to go do some hiking in VA
> right after, I will be traveling light. Say, anyone here going to Dayton and
> will be passing near Wytheville, VA on the way home?
>
> Steve KD1JV
>
>
> > This is for Steve, KD1JV and any one else who will be at Dayton this
> > year.... Who is going? And can we have some sort of identifier on our
> > shirts or hats to link us to this group?
> > And for Steve.... Will you be there with the new Mountain Topper Rig?
> >
>

8394. Re: [AT_Sprint] MTN Building Method

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 00:51:04 UTC
From: Steven Weber
Topic: 8384 Message: 8394

> The Altoids tin is neat and attractive, but has the little problem of
> not being robust, "take a fall and not become an interesting item to
> look at".

Not being robust is not really a problem. Sure, you don't want to step on it or drop a big rock on it, but that goes for any rig. Especially those with protruding knobs. The problem is that some can't or don't want to do the rework of the tin. It can be difficult to do a neat job if you don't have a drill press.

It's a real quandry. Some would like a painted and silk screened case, others get a kick out of having a rig in an Altoids tin. And being able to make it unique has a certian appeal. Otherwise, it looks just like everyone elses.

I guess eventually a custom case will have to be made, but not right away. Not enough time and too much else to do.

Steve

8395. Re: [AT_Sprint] Re: Four Days in May

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 00:56:10 UTC
From: Steven Weber
Topic: 8371 Message: 8395

Tom,

Okay, let me know if you decide to go. I'll definately pay for gas back. I see you live east of Roanoak. I really want to start at Marion, (thats where I got off last year) but Bland would be okay too. I've only done that section like 3 times already, so not missing anything!

Steve

>I am thinking about going but haven't finalized plans yet. I live at Smith
>Mountain Lake VA and Wytheville would not be too far out of my way on the
>way home.
I am checking to see if I can get anyone from around here to ride with me to share the gas cost.
Tom N?BS

>
Say, anyone here going to Dayton and
> will be passing near Wytheville, VA on the way home?

8396. RE: [AT_Sprint] MTN Building Method

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 01:03:10 UTC
From: Dale Putnam
Topic: 8384 Message: 8396

There are other tins around that are robust enough to handle the most of the ruff handling and abuse that is handed out to a "pack" radio. However, even in saddle bags, I've not had any particular trouble with the altoids tins, either the one with the radio.. or the one with the filters. Now, I don't let my horses step on one either. But there are cases around that would let me do that.. I have no idea why I would want to tho. I'm more concerned with water damage. But even that can be managed. Some may recall, I did make one that is water proof.. or at least water resistant. Submersable, for a period. no, not real deep, either.. but then, I don't figure I want to install the antenna to work undewater either. So the occasional splashis managable. Ordinary care, and I've found the altoids does just fine. Now.. the antenna and tuner, that got drug behind the horse...that is a completely different deal.. and another story.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Sat, 25 Feb 2012 19:51:04 -0500
Subject: Re: [AT_Sprint] MTN Building Method

> The Altoids tin is neat and attractive, but has the little problem of

> not being robust, "take a fall and not become an interesting item to

> look at".

Not being robust is not really a problem. Sure, you don't want to step on it

or drop a big rock on it, but that goes for any rig. Especially those with

protruding knobs. The problem is that some can't or don't want to do the

rework of the tin. It can be difficult to do a neat job if you don't have a

drill press.

It's a real quandry. Some would like a painted and silk screened case,

others get a kick out of having a rig in an Altoids tin. And being able to

make it unique has a certian appeal. Otherwise, it looks just like everyone

elses.

I guess eventually a custom case will have to be made, but not right away.

Not enough time and too much else to do.

Steve

8397. Re: [AT_Sprint] MTN Building Method

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 02:02:59 UTC
From: Charles Nolin
Topic: 8384 Message: 8397

Hi Tom,

I forgot to mention in my previous post.

I really like the Altoids tins. I have shopped around and find the Limited editions and the Special tins. In the pictures you can see what I do to my tins to make them supper strong. I put a strip of aircraft aluminum around the inside of the tin to beef up the sides, so when you put the coax connector on and the bending and twisting won't move on mine. This way there won't be any flexing and allow the antenna or any other lead to flex and break. I never drill or damage the lids if possible.
I usually paint the bottom half, and keep the limited edition tops clean.
I also put sticky backed felt on the inside of my tins, to insulate an to look clean. The felt that I use is a Honda product and is expensive.
You can do your tins to your liking and it will do the job very well, for many years.

Good Luck,
Chuck Nolin
WA6LTV/4

From: Tom <tmoll150@...>
To: AT_Sprint@yahoogroups.com
Sent: Saturday, February 25, 2012 12:19 PM
Subject: [AT_Sprint] MTN Building Method

I have just finished building 4 different SoftRocks and am anxiously looking forward to building a couple of the MTN rigs and have a few questions.
1. Looking at the pictures of Steve's build, I'm wondering if most of you will build using soldering iron and tack down each component individually, or do most use reflow methods?
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Can't wait to get one or more of these in my hands! Hoping to do some SOTA this summer.
Tnx and 73,
Tom NØBS

8398. Re: [AT_Sprint] MTN Building Method

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 03:03:59 UTC
From: Gil WA5YKK
Topic: 8384 Message: 8398

Dale, Steve;

This is one of those rare times in our hobby history when the enclosure is figured out a long time after the circuit has had a final polish put on it. I'll bet that enough builders get to know what they have going to know what button, knob, etc., does its job, then get a good idea of what to put it in for ease of operation. Just being able to put a really good rig in your pocket, "listen to with no problem", or string out enough wire to make contact with is the dream of the really old timers.
My first Elmer, Dr. J. Towne Conover, looked at my face one day, noted that I was aglow over "glowy tubes", and took my admiration of the tech at the time down a notch. His words are still with me, "The ideal will be to put a whole station, transmitter and receiver, into your shirt pocket and just attach it to a nice battery, hear and make contact with others with such tiny power output that you won't believe he or she is living on the East coast, while another operator is in Canada". He had a really nice Johnson rig at the time, kept it going until he got so old that a stroke caught up with him, then he still hung on to CW until he couldn't handle a key anymore.

Dale - a thought.... get the gears turning in your head, and figger out how to put a big part of an ATS in the base of a Vibroplex key! Somehow, I can envision a rig set up in the top cover of my big paddle key, maybe a straight key. The only problem is to make that antenna easy to set up, & that can involve a different company that is well known - but the wind can do some big damage to it, too.

Food for thought, that's what keeps this hobby the best, and we're handy when some "official' finds out that the power is out, people are hurt and hungry - and the baby needs diapers!

73's
Gil WA5YKK

On 2/25/2012 7:03 PM, Dale Putnam wrote:
>
> There are other tins around that are robust enough to handle the most
> of the ruff handling and abuse that is handed out to
> a "pack" radio. However, even in saddle bags, I've not had any
> particular trouble with the altoids tins, either the one with the
> radio.. or the one with the filters. Now, I don't let my horses step
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> managed. Some may recall, I did make one that is water proof.. or at

> least water resistant. Submersable, for a period.
> no, not real deep, either.. but then, I don't figure I want to install
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> is managable. Ordinary care, and I've found the altoids does just
> fine. Now.. the antenna and tuner, that got drug behind the horse...
> that is a completely different deal.. and another story.
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> --... ...-- Dale - WC7S in Wy
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> To: AT_Sprint@yahoogroups.com
> From: steve.kd1jv@...
> Date: Sat, 25 Feb 2012 19:51:04 -0500
> Subject: Re: [AT_Sprint] MTN Building Method
>
> > The Altoids tin is neat and attractive, but has the little problem of
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> It's a real quandry. Some would like a painted and silk screened case,
> others get a kick out of having a rig in an Altoids tin. And being
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> everyone
> elses.
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> I guess eventually a custom case will have to be made, but not right
> away.
> Not enough time and too much else to do.
>
> Steve
>
>
>

8399. Re: [AT_Sprint] Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 06:06:38 UTC
From: John Hestenes
Topic: 8344 Message: 8399

Steve:

The connection between the MTR any my iPhone 4S will be made using its 30-pin connector. You can get cables from an Apple-certified third party that implement RS232 in/out through the 30-pin connector. Apple-certification implements a key check (a resistance combination)
by the iPhone of the device connector to confirm that it is an approved connection device. So you fool the iPhone into confirming you are certified by using the third party cable!

So I would use a UART port on the MTR, if available. If it is not available I would build a daughter board and add some code to implement it.

Acoustic coupling could be done but I don't favor that. The audio in/out is best for the human operator. Many have demonstrated acoustic coupling success however (e.g. NBEMS FLDigi users). Acoustic coupling of the incoming and outgoing signal also does not solve issues of digital control of the interface.

Blue tooth could be done but it drains the battery more than I like so I don't plan to use it unless it is for a rarely used standard device (a BT keyboard, for instance).

IPad coupling has been demonstrated by using the camera adapter which provides a USB port. Using a powered hub (or equivalent circuit) you can connect any other USB device (e.g, some have connected a Signalink USB this way).
I'm not sure yet that this method works with the iPhone but the IOS 5 is the same for both devices so it needs to be verified. (I use an iPhone 4s with IOS 5.)

Android coupling can be achieved by serial signals in the USB port. Although acoustic coupling and blue tooth are options. There are other possibilities I believe for some devices with add-on adapters.

John KJ6CVB

8400. Re: [AT_Sprint] Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 06:45:30 UTC
From: John Hestenes
Topic: 8344 Message: 8400

Steve:

I understand your design goal for this rig. You are right to keep to them
for this effort, especially in light of the short time before you go hiking.

If all the UART ports are committed the drive the LED display segments
I will consider the possibility of my adding code and circuits
on a daughter board to switch between the LED and an external
smartphone (using RS232 protocols) which can display the
equivalent information. This should not require modification of
your current PCB design, I think. The LED would connect to the
daughter board when the rig is assembled. The LED would be the
default choice of the switch. Such an approach
might also be used for other things, as the inquirer (below) asks.

So, at least, use an 8K processor so there is room to add code.

I appreciate your comments.

Thanks,
John Hestenes KJ6CVB

On Feb 25, Steve wrote:
> Steve, is there any way you can keep the UART ports free and track them
> to some header pins. They would be useful for other things as well as
> digi-modes. Things like loading the memories or setting frequencies.

Nope, not a chance. Those ports are needed to drive LED display segments
and there is not a square mm of board space left to mount even two header
pins on. It's actually quite amazing all the required parts fit on the
board! If you really want to gain access to the UART ports and rewrite the
firmware to use them, that is possible, but is not a primary design goal
for this rig.

Steve

On Feb 25, 2012, at 10:06 PM, John Hestenes wrote:

> Steve:
>
> The connection between the MTR any my iPhone 4S will be made using its 30-pin connector.
> You can get cables from an Apple-certified third party that implement RS232 in/out
through
> the 30-pin connector. Apple-certification implements a key check (a resistance
combination)
> by the iPhone of the device connector to confirm that it is an approved connection
device.

> So you fool the iPhone into confirming you are certified by using the third party cable!
>
> So I would use a UART port on the MTR, if available. If it is not available I would
> build a daughter board and add some code to implement it.
>
> Acoustic coupling could be done but I don't favor that. The audio in/out is best for the
> human operator. Many have demonstrated acoustic coupling success however
> (e.g. NBEMS FLDigi users). Acoustic coupling of the incoming and outgoing signal
> also does not solve issues of digital control of the interface.
>
> Blue tooth could be done but it drains the battery more than I like so I don't plan to
use
> it unless it is for a rarely used standard device (a BT keyboard, for instance).
>
> IPad coupling has been demonstrated by using the camera adapter which provides a USB
> port. Using a powered hub (or equivalent circuit) you can connect any other USB device
> (e.g, some have connected a Signalink USB this way).
> I'm not sure yet that this method works with the iPhone but the IOS 5 is the same
> for both devices so it needs to be verified. (I use an iPhone 4s with IOS 5.)
>
> Android coupling can be achieved by serial signals in the USB port. Although acoustic
> coupling and blue tooth are options. There are other possibilities I believe for some
> devices with add-on adapters.
>
> John KJ6CVB
>
>

8401. MTR Audio Low Pass Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 20:28:53 UTC
From: WA0ITP
Topic: 8401 Message: 8401

I'm really looking forward to using this rig in my portable ops. I love these little things.

Steve, would it be possible to call out an option for the builder to build in an audio low pass rather than the bandpass?

The only "unperfect" thought I've ever had about my ATS3(no suffix) is that the audio was often "buzzy" when a station was fairly well centered in the passband. There were some times that actually helped copy, but it was/is quite raspy on the ears.

Thanx for considering es cu at FDIM

Back to the bench, Winter's too valuable to waste.
I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

8402. Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 21:07:27 UTC
From: Vojtech
Topic: 8344 Message: 8402

Hi John.

It seems you are trying to reinvent the wheel with the serial interface. I spent a considerable time around 2007 to rethink various possibilities of connecting a handheld computer to the ATS transceiver. You can roughly sort the available interfaces into synchronous and asynchronous types, where synchronous means, the ATS firmware receives a command and immediately converts it to a transmit action like key down/up, frequency or phase change. With the asynchronous interface the ATS firmware has to buffer data and do the transmit timing on its own. The asynchronous interface requires therefore more firmware code and available controller RAM to transmit correctly. Complexity on the phone side is not an issue, but complexity on the ATS side is.

Now back to the interfaces available on modern handheld computers. Your software will talk to the device driver using a multitasking operating system, which will introduce heavy timing jitter into when the data is received by the ATS firmware compared to when it is passed to the operating system by your phone software. The timing jitter will be even worse if sent over USB. While such interfacing is possible with the ATS transceiver, your add-on firmware will be complex and will likely require stripping down the standard firmware features to fit your add-on. When transmitting a longer sequence you will have to communicate from your phone application with the ATS add-on to keep the ATS buffers not underfilled and not overfilled, which adds another level of complexity, difficult to implement on the ATS controller.

With the serial interface, you need a custom fragile cable, which may be expensive in case of iPhone accessories. IRDA is no more available. Bluetooth serial is power hog and has the same or worse timing issues as plain serial.

With the modem over sound output, you just need a single audio cable to connect to the ATS radio. The connectors are readily available and sturdy. The transmit modulation commands are modulated synchronously, there is no buffering on the ATS side. When the firmware decodes a command, it processes it and forgets it. All is simple and transparent, the firmware is small, already implemented and well tested.

> I plan to develop apps for both iPhone and Android smartphones
> for a device like the MTR. They will be new native OS apps --
> not PocketDigi and not using Pocket PC.

All I propose is to use the command over sound code from PocketDigi to develop your iOS or Android software. Maybe I will use your code after all as the Pocket PC platform is dead and I have neither time nor desire to port PocketDigi to a modern platform. I did it once (PocketDigi is an optimized port of Linux gMFSK application) and I know how time consuming it is to implement such an application and to learn a new development platform. BTW, PocketDigi is a highly optimized C code, which does not use floating point arithmetics and runs very well on a 200MHz StrongArm. 5 years ago the StrongARM processors were not equipped with FPUs.

If you really need to get to the serial port and still keep the display functional, I recommend to add a shift register between the display and a MCU. This will make 6 of 8 pins free for your purposes.

Here are the pictures of my modded ATS-3b:
http://kufr.cz/~ok1iak/HAM/ATS3b/photos/

The shift register is in the middle of
http://kufr.cz/~ok1iak/HAM/ATS3b/photos/pcb-top.JPG

and the general description of my modifications:
http://kufr.cz/~ok1iak/HAM/ATS3b/

You will find my modified ATS-3b firmware, which drives the shift register at the PocketDigi project on www.sourceforge.net

73, Vojtech OK1IAK

8403. Re: [AT_Sprint] Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 21:17:23 UTC
From: Paul Mateer
Topic: 8344 Message: 8403

the other thing is Apple doesn't seem to let just any software onto it's
i-devices...

On Sun, Feb 26, 2012 at 3:07 PM, Vojtech <bubnikv@...> wrote:

> **
>
>
> Hi John.
>
> It seems you are trying to reinvent the wheel with the serial interface. I
> spent a considerable time around 2007 to rethink various possibilities of
> connecting a handheld computer to the ATS transceiver. You can roughly sort
> the available interfaces into synchronous and asynchronous types, where
> synchronous means, the ATS firmware receives a command and immediately
> converts it to a transmit action like key down/up, frequency or phase
> change. With the asynchronous interface the ATS firmware has to buffer data
> and do the transmit timing on its own. The asynchronous interface requires
> therefore more firmware code and available controller RAM to transmit
> correctly. Complexity on the phone side is not an issue, but complexity on
> the ATS side is.
>
> Now back to the interfaces available on modern handheld computers. Your
> software will talk to the device driver using a multitasking operating
> system, which will introduce heavy timing jitter into when the data is
> received by the ATS firmware compared to when it is passed to the operating
> system by your phone software. The timing jitter will be even worse if sent
> over USB. While such interfacing is possible with the ATS transceiver, your
> add-on firmware will be complex and will likely require stripping down the
> standard firmware features to fit your add-on. When transmitting a longer
> sequence you will have to communicate from your phone application with the
> ATS add-on to keep the ATS buffers not underfilled and not overfilled,
> which adds another level of complexity, difficult to implement on the ATS
> controller.
>
> With the serial interface, you need a custom fragile cable, which may be
> expensive in case of iPhone accessories. IRDA is no more available.
> Bluetooth serial is power hog and has the same or worse timing issues as
> plain serial.
>
> With the modem over sound output, you just need a single audio cable to
> connect to the ATS radio. The connectors are readily available and sturdy.
> The transmit modulation commands are modulated synchronously, there is no
> buffering on the ATS side. When the firmware decodes a command, it
> processes it and forgets it. All is simple and transparent, the firmware is

> small, already implemented and well tested.
>
> > I plan to develop apps for both iPhone and Android smartphones
> > for a device like the MTR. They will be new native OS apps --
> > not PocketDigi and not using Pocket PC.
>
> All I propose is to use the command over sound code from PocketDigi to
> develop your iOS or Android software. Maybe I will use your code after all
> as the Pocket PC platform is dead and I have neither time nor desire to
> port PocketDigi to a modern platform. I did it once (PocketDigi is an
> optimized port of Linux gMFSK application) and I know how time consuming it
> is to implement such an application and to learn a new development
> platform. BTW, PocketDigi is a highly optimized C code, which does not use
> floating point arithmetics and runs very well on a 200MHz StrongArm. 5
> years ago the StrongARM processors were not equipped with FPUs.
>
> If you really need to get to the serial port and still keep the display
> functional, I recommend to add a shift register between the display and a
> MCU. This will make 6 of 8 pins free for your purposes.
>
> Here are the pictures of my modded ATS-3b:
> http://kufr.cz/~ok1iak/HAM/ATS3b/photos/
>
> The shift register is in the middle of
> http://kufr.cz/~ok1iak/HAM/ATS3b/photos/pcb-top.JPG
>
> and the general description of my modifications:
> http://kufr.cz/~ok1iak/HAM/ATS3b/
>
> You will find my modified ATS-3b firmware, which drives the shift register
> at the PocketDigi project on www.sourceforge.net
>
> 73, Vojtech OK1IAK
>
>
>

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8404. MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 21:51:51 UTC
From: Fred
Topic: 8404 Message: 8404

```
Hi Steve
will it be possible to update the firmware of the MTR as it may done
with the ATS3/4 ?
vy 72
Fred, DJ3KK
---------------
```

8405. Locks in TX after pwr up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 21:56:20 UTC
From: walterp102@aol.com
Topic: 8405 Message: 8405

Hello Group

I just started having this problem with my ATS3a, I was wondering if anyone in the group could help me. Bare in mind I am not the sharpest tool in the shed!

THE PROBLEM: Upon power up the rig announces the start freq and than goes into transmit.

If a keyer is plugged in, the rig continuously sends dits.

If a straight key is in place than the radio sends a constant carrier.

Any ideas as to what is going on here? Has anybody experienced this on their ATS-3A The only way to stop the above is to off the power. Removing the keys has no affect.

Any suggestions?

Tnx

Walter KA2CAQ

8406. Re: [AT_Sprint] MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 22:37:36 UTC
From: Michael Harnage
Topic: 8404 Message: 8406

Yes it will be programmable in circuit but not with JTAG. It will use Spy-Bi-Wire for incircuit programming.

>
>Hi Steve
>will it be possible to update the firmware of the MTR as it may done
>with the ATS3/4 ?
>vy 72
>Fred, DJ3KK
>----------
>

8407. Re: [AT_Sprint] MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 22:38:19 UTC
From: Steven Weber
Topic: 8404 Message: 8407

> will it be possible to update the firmware of the MTR as it may done
> with the ATS3/4 ?

Yes, this chip uses the two wire "bi-spy" interface. A USB based programmer called "the Launchpad" is available from TI and other venders for USD 5.00 - can't beat that price and since it uses a USB interface, will work with new PC's and laptops. The Launchpad is ment for the new "MSP430G series "value line" chips, but does work with the MSP430F2xxx series chip the MTR uses. However, TI says that might change in future releases of the board.

Steve KD1JV

8408. Re: [AT_Sprint] MTR Audio Low Pass Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 22:53:15 UTC
From: Steven Weber
Topic: 8401 Message: 8408

Steve, would it be possible to call out an option for the builder to build in an audio low pass rather than the bandpass?

No, that is a completely different topology and componet values. Anyway the BPF works better.

The only "unperfect" thought I've ever had about my ATS3(no suffix) is that the audio was often "buzzy"

That is actually a problem with the first audio stage and is usually most apparent with weak signals. Adding a 470 pf cap across the 330K resistor which connects to pin 3 of the LM4808 will solve the problem. That balances the cap which is across the feedback resistor. Another mod which might help is to remove the two caps which by pass the output of the product detector to ground (pins 4+5), then place one of the caps between pins 4+5 instead. This also helps improve the balance.

These mods could benifit all interations the 3 series rigs and have already been done in the 4's.

Steve

8409. Re: [AT_Sprint] MTR Audio Low Pass Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 22:57:59 UTC
From: WA0ITP
Topic: 8401 Message: 8409

Fb thanks much, I appreciate the info.

Back to the bench, Winter's too valuable to waste.
I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Sunday, February 26, 2012 4:53 PM
Subject: Re: [AT_Sprint] MTR Audio Low Pass Filter

Steve, would it be possible to call out an option for the builder to build in an audio low pass rather than the bandpass?

No, that is a completely different topology and componet values. Anyway the BPF works better.

The only "unperfect" thought I've ever had about my ATS3(no suffix) is that the audio was often "buzzy"

That is actually a problem with the first audio stage and is usually most apparent with weak signals. Adding a 470 pf cap across the 330K resistor which connects to pin 3 of the LM4808 will solve the problem. That balances the cap which is across the feedback resistor. Another mod which might help is to remove the two caps which by pass the output of the product detector to ground (pins 4+5), then place one of the caps between pins 4+5 instead. This also helps improve the balance.

These mods could benifit all interations the 3 series rigs and have already been done in the 4's.

Steve

8410. Re: [AT_Sprint] Re: MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 23:05:41 UTC
From: Steven Weber
Topic: 8344 Message: 8410

> If you really need to get to the serial port and still keep the display
> functional, I recommend to add a shift register between the display and a
> MCU. This will make 6 of 8 pins free for your purposes.

Actually, it wouldn't take any hardware changes. The UART ports drive LED segements. These will flash as the uart is working, but that is actually a feature to show that it is working. It's not like those ports have to stay in a specific state, like if they were used as an enable bit.

There will have to be some firmware overhead to switch the ports from the being connected to the UART or as normal output ports, but thats only a couple of instructions, but will have to be repeated everywhere the display is written too, which is actually a lot of places.

Steve

8411. Re: MTR Audio Low Pass Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-26 23:40:48 UTC
From: cloud runner
Topic: 8401 Message: 8411

Dunno that I have heard the "buzzy-ness Terry refers to except maybe in certain headfones for which I was faulting the phone...

Pardon my ignorance ...

I am looking at the skematics of my ATS3B and my ATS4B and comparing to understand these mods.

* the 470 pf you say to put "across" the 330K (which I believe is R3 on the ATS3B skematic) ... but in the ATS4B skematic, there is a C23 470 pf cap from the pin 3 end of the 330K R3 to ground.

Q should it be across the resistor or from pin 3 to ground as shown in the ATS4B skematic?

* The two caps to remove are identified as C13 and C14 on the ATS3B skematic, removed and replaced by the cap identified as C13 on the ATS4B skematic.

Are these mods separately helpful, or should only be done together? I can do the second mod using one of the caps removed, but the other mod, I don't know if I have a 470 pf around or not. therefore, I wonder if it is OK to do the second mod and not the first for now, if that is of benefit...

73 fred - kt5x

The only "unperfect" thought I've ever had about my ATS3(no suffix) is that the audio was often "buzzy"

That is actually a problem with the first audio stage and is usually most apparent with weak signals. Adding a 470 pf cap across the 330K resistor which connects to pin 3 of the LM4808 will solve the problem. That balances the cap which is across the feedback resistor. Another mod which might help is to remove the two caps which by pass the output of the product detector to ground (pins 4+5), then place one of the caps between pins 4+5 instead. This also helps improve the balance.

These mods could benifit all interations the 3 series rigs and have already been done in the 4's.

Steve

8412. Re: [AT_Sprint] MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-27 00:47:23 UTC
From: John Hestenes
Topic: 8344 Message: 8412

Vojtech:

Thanks for your post. Looking at your links it is clear that you have considerable experience with the ATS-3B extension game. Your points are valid. When I get time I will study your approach in depth. The shift register is also a good idea.

My professional experience with microsecond-level real-time avionics synchronous data acquisition systems agrees with your main comments about multi-tasking OS-induced jitter and similar or related issues.

I still hope Steve will offer the 8K processor to allow space for some code.

Thanks again,

John Hestenes KJ6VB

On Feb 26, 2012, at 1:07 PM, Vojtech wrote:

> Hi John.
>
> It seems you are trying to reinvent the wheel with the serial interface. I spent a considerable time around 2007 to rethink various possibilities of connecting a handheld computer to the ATS transceiver. You can roughly sort the available interfaces into synchronous and asynchronous types, where synchronous means, the ATS firmware receives a command and immediately converts it to a transmit action like key down/up, frequency or phase change. With the asynchronous interface the ATS firmware has to buffer data and do the transmit timing on its own. The asynchronous interface requires therefore more firmware code and available controller RAM to transmit correctly. Complexity on the phone side is not an issue, but complexity on the ATS side is.
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> Now back to the interfaces available on modern handheld computers. Your software will talk to the device driver using a multitasking operating system, which will introduce heavy timing jitter into when the data is received by the ATS firmware compared to when it is passed to the operating system by your phone software. The timing jitter will be even worse if sent over USB. While such interfacing is possible with the ATS transceiver, your add-on firmware will be complex and will likely require stripping down the standard firmware features to fit your add-on. When transmitting a longer sequence you will have to communicate from your phone application with the ATS add-on to keep the ATS buffers not underfilled and not overfilled, which adds another level of complexity, difficult to implement on the ATS controller.
>
> With the serial interface, you need a custom fragile cable, which may be expensive in case of iPhone accessories. IRDA is no more available. Bluetooth serial is power hog and has the same or worse timing issues as plain serial.

>
> With the modem over sound output, you just need a single audio cable to connect to the ATS radio. The connectors are readily available and sturdy. The transmit modulation commands are modulated synchronously, there is no buffering on the ATS side. When the firmware decodes a command, it processes it and forgets it. All is simple and transparent, the firmware is small, already implemented and well tested.
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> > I plan to develop apps for both iPhone and Android smartphones
> > for a device like the MTR. They will be new native OS apps --
> > not PocketDigi and not using Pocket PC.
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> All I propose is to use the command over sound code from PocketDigi to develop your iOS or Android software. Maybe I will use your code after all as the Pocket PC platform is dead and I have neither time nor desire to port PocketDigi to a modern platform. I did it once (PocketDigi is an optimized port of Linux gMFSK application) and I know how time consuming it is to implement such an application and to learn a new development platform. BTW, PocketDigi is a highly optimized C code, which does not use floating point arithmetics and runs very well on a 200MHz StrongArm. 5 years ago the StrongARM processors were not equipped with FPUs.
>
> If you really need to get to the serial port and still keep the display functional, I recommend to add a shift register between the display and a MCU. This will make 6 of 8 pins free for your purposes.
>
> Here are the pictures of my modded ATS-3b:
> http://kufr.cz/~ok1iak/HAM/ATS3b/photos/
>
> The shift register is in the middle of
> http://kufr.cz/~ok1iak/HAM/ATS3b/photos/pcb-top.JPG
>
> and the general description of my modifications:
> http://kufr.cz/~ok1iak/HAM/ATS3b/
>
> You will find my modified ATS-3b firmware, which drives the shift register at the PocketDigi project on www.sourceforge.net
>
> 73, Vojtech OK1IAK
>
>

8413. Re: [AT_Sprint] MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-27 00:53:10 UTC
From: John Hestenes
Topic: 8344 Message: 8413

Steve:

Sounds hopeful. Sort of like a progress/activity indicator.... :)

And again: Please offer the 8K chip to allow more code.

Thanks again,

John KJ6CVB

On Feb 26, 2012, at 3:05 PM, Steven Weber wrote:

> > If you really need to get to the serial port and still keep the display
> > functional, I recommend to add a shift register between the display and a
> > MCU. This will make 6 of 8 pins free for your purposes.
>
> Actually, it wouldn't take any hardware changes. The UART ports drive LED
> segements. These will flash as the uart is working, but that is actually a
> feature to show that it is working. It's not like those ports have to stay
> in a specific state, like if they were used as an enable bit.
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> There will have to be some firmware overhead to switch the ports from the
> being connected to the UART or as normal output ports, but thats only a
> couple of instructions, but will have to be repeated everywhere the display
> is written too, which is actually a lot of places.
>
> Steve
>
>

8414. Re: [AT_Sprint] MTR and iPhone/Android

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-27 01:34:40 UTC
From: Steven Weber
Topic: 8344 Message: 8414

Yes, i will use 8K with will leave about 3K to play with. Unless I do put Pocketdigi back in, in which case there will not be much left.. But first I need to see if it still works in this new processor. There seems to be some suttle differences in how some things work inside it.

Steve

And again: Please offer the 8K chip to allow more code.

8415. Re: [AT_Sprint] Re: MTR Audio Low Pass Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-27 01:37:11 UTC
From: Steven Weber
Topic: 8401 Message: 8415

It doesn't matter much if the cap goes to ground or across the resistor. Doing the mod to the 3's, its easier to put it across the resistor. It was easier to put it to ground when laid out on the board.

The 470 pf mod will make the most difference. You can use a leaded part of course.

Steve

I am looking at the skematics of my ATS3B and my ATS4B and comparing to understand these mods.

* the 470 pf you say to put "across" the 330K (which I believe is R3 on the ATS3B skematic) ... but in the ATS4B skematic, there is a C23 470 pf cap from the pin 3 end of the 330K R3 to ground.

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* The two caps to remove are identified as C13 and C14 on the ATS3B skematic, removed and replaced by the cap identified as C13 on the ATS4B skematic.

Are these mods separately helpful, or should only be done together? I can do the second mod using one of the caps removed, but the other mod, I don't know if I have a 470 pf around or not. therefore, I wonder if it is OK to do the second mod and not the first for now, if that is of benefit...

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The only "unperfect" thought I've ever had about my ATS3(no suffix) is that the audio was often "buzzy"

That is actually a problem with the first audio stage and is usually most apparent with weak signals. Adding a 470 pf cap across the 330K resistor which connects to pin 3 of the LM4808 will solve the problem. That balances the cap which is across the feedback resistor. Another mod which might help is to remove the two caps which by pass the output of the product detector to ground (pins 4+5), then place one of the caps between pins 4+5 instead. This also helps improve the balance.

These mods could benifit all interations the 3 series rigs and have already been done in the 4's.

Steve

8416. Re:MTR Audio Low Pass Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-27 02:24:55 UTC
From: cloud runner
Topic: 8401 Message: 8416

Got it !!!

TNX, mate.

fd

It doesn't matter much if the cap goes to ground or across the resistor. Doing the mod to the 3's, its easier to put it across the resistor. It was easier to put it to ground when laid out on the board.

The 470 pf mod will make the most difference. You can use a leaded part of course.

Steve

I am looking at the skematics of my ATS3B and my ATS4B and comparing to understand these mods.

8417. Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-27 08:44:24 UTC
From: Fred
Topic: 8404 Message: 8417

--- In AT_Sprint@yahoogroups.com, "Fred" <fred_heusy@...> wrote:
>
> Hi Steve
> will it be possible to update the firmware of the MTR as it may done
> with the ATS3/4 ?
> vy 72
> Fred, DJ3KK
> ---
>

Hi Steve and Michael,
mni tnx for your info - so it will be possible to change
a 40m/20m MTR to a 40m/30m MTR only by another firmware and
a few caps + inductors ..... no problem for a good homebrewer.
I believe 30m is a good alternate band on crowded contest weekends
for those who like a nice cw chat.
Vy 72, Fred, DJ3KK

8418. Re: [AT_Sprint] Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-27 15:09:25 UTC
From: Steven Weber
Topic: 8404 Message: 8418

> mni tnx for your info - so it will be possible to change
> a 40m/20m MTR to a 40m/30m MTR only by another firmware and
> a few caps + inductors ..... no problem for a good homebrewer.
> I believe 30m is a good alternate band on crowded contest weekends
> for those who like a nice cw chat.

Actually, you will be able to make the band change simply by changing a resistor and the filters. 80 and 30 M parameters will be programmed into the chip, so I don't have to blast different firmware for those who want a different band mix.

Steve

8419. Re: [AT_Sprint] Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-27 15:18:05 UTC
From: jaevans@pcisys.net
Topic: 8404 Message: 8419

Steve,

Just to clarify, it sounds like the MTR will have all the band parameters programmed in the MCU so that the resistor value will determine which bands will be used - is that the case? So the MTR will be capable of 80, 40, 30, and 20 depending upon filters and band-selection resistor? Any restrictions there, i.e., are all dual-band combinations possible?

Thanks,
72 - John - n0hj

> Actually, you will be able to make the band change simply by changing a
> resistor and the filters. 80 and 30 M parameters will be programmed into the
> chip, so I don't have to blast different firmware for those who want a
> different band mix.
>
> Steve
>
>

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

8420. Re: [AT_Sprint] Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-27 16:13:16 UTC
From: Steven Weber
Topic: 8404 Message: 8420

All band combinations are possible. Parts for 40/30/20 will be supplied, pick any two. 80M on special request. Opps, I still need to see if I can use -2 cores on 20 instead of -4's. It would be nice to have only one type needed for all bands..though I suppose the yellow -4 could be used on 30. I'll have to see if it makes more sense to use less turns on 20 with a red core or more turns on 30 with a yellow core.

Steve

>
> Just to clarify, it sounds like the MTR will have all the band parameters
> programmed in the MCU so that the resistor value will determine which
> bands
> will be used - is that the case? So the MTR will be capable of 80, 40,
> 30,
> and 20 depending upon filters and band-selection resistor? Any
> restrictions there, i.e., are all dual-band combinations possible?
>
> Thanks,
> 72 - John - n0hj
>
>> Actually, you will be able to make the band change simply by changing a
>> resistor and the filters. 80 and 30 M parameters will be programmed into
>> the
>> chip, so I don't have to blast different firmware for those who want a
>> different band mix.
>>

8421. Re: [AT_Sprint] Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-27 17:12:16 UTC
From: Robert Gottschalk
Topic: 8404 Message: 8421

Steve:
 At the risk of being accused of tresion, I would like to suggest that your next iteration of ATS radios include SSB. I obviously have no idea who purchases your kits, but there seems to be a market of new hams who know nothing of the Morse Code.I have recently did 2 SOTA activations on SSB and find that I work better that twice as many contacts as I do on CW. I had the same faithful following plus more new contacts.
 This past Spring I spent two days sitting in a chair on the AT talking to "thru hikers" and playing radio with your 3B. Out of the group of possibly 5 "thru hikers" I did not see one "old geeser" type like myself. In the spirit of The Appalachian Trail please consider the larger audience that is actually using the AT and could benefit from the enjoyment of a radio which is smaller than a bred box and would work on SSB.
Bob K4ADV W4/Virginia SOTA activator

From: Steven Weber <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Monday, February 27, 2012 4:13 PM
Subject: Re: [AT_Sprint] Re: MTR and JTAG-Pins

All band combinations are possible. Parts for 40/30/20 will be supplied, pick any two. 80M on special request. Opps, I still need to see if I can use -2 cores on 20 instead of -4's. It would be nice to have only one type needed for all bands..though I suppose the yellow -4 could be used on 30. I'll have to see if it makes more sense to use less turns on 20 with a red core or more turns on 30 with a yellow core.

Steve

>
> Just to clarify, it sounds like the MTR will have all the band parameters
> programmed in the MCU so that the resistor value will determine which
> bands
> will be used - is that the case? So the MTR will be capable of 80, 40,
> 30,
> and 20 depending upon filters and band-selection resistor? Any
> restrictions there, i.e., are all dual-band combinations possible?
>
> Thanks,
> 72 - John - n0hj
>
>> Actually, you will be able to make the band change simply by changing a
>> resistor and the filters. 80 and 30 M parameters will be programmed into
>> the
>> chip, so I don't have to blast different firmware for those who want a
>> different band mix.
>>

8422. Re: [AT_Sprint] Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-27 20:40:39 UTC
From: Steven Weber
Topic: 8404 Message: 8422

There is a reason no one sells SSB rig kits. Except for youkits from China - I have one on the bench that someone sent to me to finish building and to try and get working, haven't started on it yet because it looks like a project. And that's the reason, its a project and if you don't have a decent arry of test equipment - like a good Scope at the least, your going to have a real hard time getting it going.

My one foray into SSB rigs, the MMR-40 - which BTW hasn't sold very well - has been enough to convince me I really don't want to get into that can of worms making SSB rig kits. Too much to go wrong and way too big an investment to do right. Got 20 grand you want to give me to get started?

The youkit SSB sells for $350. No way I could compete with that. I'm happy to let them have the low end market and Elecraft the high end market. My nitch is little shirt pocket CW rigs and I'll stick to that. I have a hard enough time keeping up with demand for those.

Steve
At the risk of being accused of tresion, I would like to suggest that your next iteration of ATS radios include SSB. I obviously have no idea who purchases your kits, but there seems to be a market of new

8423. Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 12:32:28 UTC
From: Yannick
Topic: 8404 Message: 8423

Steve,

For the SoftRock RXTX KB9IYG had to face the same problem.
He supplies all the parts for all the possible band combinations.
You should have a look at the Bill Of Material :
http://www.wb5rvz.com/sdr/ensemble/00_bom.htm
and the band specific BoM
http://www.wb5rvz.com/sdr/ensemble/00_bom_40,%2030,%2020m.htm
Here you will find the assembly instructions for the LP filter :
http://www.wb5rvz.com/sdr/ensemble/05_rf.htm

73,
Yan - XV4Y.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> All band combinations are possible. Parts for 40/30/20 will be supplied,
> pick any two. 80M on special request. Opps, I still need to see if I can
> use -2 cores on 20 instead of -4's. It would be nice to have only one type
> needed for all bands..though I suppose the yellow -4 could be used on 30.
> I'll have to see if it makes more sense to use less turns on 20 with a red
> core or more turns on 30 with a yellow core.
>

8424. Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 12:36:28 UTC
From: Yannick
Topic: 8404 Message: 8424

I have built a Version 3 BitX kit (SSB only) without any special tool and use it on digimodes (18.000km with 3W in a dipole on 20m with JT65a).
However I agree with you that SSB is more tricky for kit builders and you should stick to CW only for the "ATS/MTR" series.
The BitX20A and now G6BLQ BitX have some success but looking at the Yahoo group one will quickly find out that it is not that easy to have everything right.

73,
Yan.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> There is a reason no one sells SSB rig kits. Except for youkits from China - I have one on the bench that someone sent to me to finish building and to try and get working, haven't started on it yet because it looks like a project. And that's the reason, its a project and if you don't have a decent arry of test equipment - like a good Scope at the least, your going to have a real hard time getting it going.
>
> My one foray into SSB rigs, the MMR-40 - which BTW hasn't sold very well - has been enough to convince me I really don't want to get into that can of worms making SSB rig kits. Too much to go wrong and way too big an investment to do right. Got 20 grand you want to give me to get started?
>
> The youkit SSB sells for $350. No way I could compete with that. I'm happy to let them have the low end market and Elecraft the high end market. My nitch is little shirt pocket CW rigs and I'll stick to that. I have a hard enough time keeping up with demand for those.
>
> Steve
> At the risk of being accused of tresion, I would like to suggest that your next iteration of ATS radios include SSB. I obviously have no idea who purchases your kits, but there seems to be a market of new
>

8425. Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 16:26:47 UTC
From: Tim Goodrich
Topic: 8404 Message: 8425

"Old Geezer" and "CW" are not mutually exclusive. I'm 31 and have been using CW for 2 years now. In fact, I do 95% of my operating using CW now.

Tim

K6TW

8426. MTR production problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 16:42:29 UTC
From: Steven Weber
Topic: 8426 Message: 8426

I started ordering parts for the MTR yesterday. Today I got a message from Mouser saying the SO-8 LM386 audio amp is now a non-stocked item and I would have to buy 2000 of them for some $800 and wait 16 weeks to get any at all! They did have 48 left in stock which they sent me, but I need 102 more!

So, I just bought $4,000 worth of parts (to start) and can't use any of them because I can't get one 50 cent chip! Should I shoot my foot now or later? I really hate when they do things like this to me!

The good news is I haven't ordered the boards yet, so thats about $1,000 I won't have to throw away. Time to start looking for a subsitute.

Hope your day is going better...

Steve KD1JV

8427. RE: [AT_Sprint] MTR production problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 16:50:36 UTC
From: Jake, ON4YZ
Topic: 8426 Message: 8427

Steve,

You could also sell your kits without the 386... We're able to find this items in our junk boxes or elsewhere. But please issue the more possible kits. I feel the expection is huge...

73 de Jake - ON4YZ

>> SO-8 LM386 audio amp is now a non-stocked item

8428. RE: [AT_Sprint] Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 16:58:56 UTC
From: Dale Putnam
Topic: 8404 Message: 8428

That example alone, gives me great hope, and I believe Tim should be congratulated, and given a pat on the back, with exuberance.!!Way to GE TIM!!

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: tim@timgoodrich.com
Date: Tue, 28 Feb 2012 08:26:47 -0800
Subject: [AT_Sprint] Re: MTR and JTAG-Pins

“Old Geezer” and “CW” are not mutually exclusive. I’m 31 and have been using CW for 2 years now. In fact, I do 95% of my operating using CW now. TimK6TW

8429. False alarm!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 17:01:52 UTC
From: Steven Weber
Topic: 8429 Message: 8429

Well, it seems the LM386's I ordered were made by JRE, but Mouser and Digi-Key have 1000's of SMT LM386's in stock made by National Semi. Whew - the world is not coming to an end after all and I can proceed as planed.

It always seems the one part I don't check stock for before I order is always the one to give me trouble. Just because you bought something a few months ago, doesn't mean you can still get it today!

Steve

8430. Re: [AT_Sprint] False alarm!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 17:20:33 UTC
From: Paul Mateer
Topic: 8429 Message: 8430

I was going to say....cause I just did a quick search and saw over 2000 in stck of the National ones.....

On Tue, Feb 28, 2012 at 11:01 AM, Steven Weber <steve.kd1jv@...>wrote:

> **
>
>
> □**
> Well, it seems the LM386's I ordered were made by JRE, but Mouser and
> Digi-Key have 1000's of SMT LM386's in stock made by National Semi. Whew -
> the world is not coming to an end after all and I can proceed as planed.
>
> It always seems the one part I don't check stock for before I order is
> always the one to give me trouble. Just because you bought something a few
> months ago, doesn't mean you can still get it today!
>
> Steve
>
>
>

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8431. Re: [AT_Sprint] MTR production problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 19:44:15 UTC
From: Jim Crooke
Topic: 8426 Message: 8431

Oh my. That means there is only going to be 150 kits? With some expressing a desire to buy 2-4 each, I better be sitting on my computer with an itchy finger lest I miss an opportunity again!

Jim K0ESE

> They did have 48 left in stock which they sent me, but I need 102 more!
>
>
>
>

8432. Re: [AT_Sprint] False alarm!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 22:48:09 UTC
From: Hank Greeb
Topic: 8429 Message: 8432

Steve:

Please, pretty please, keep at it, ole chap.

The world of ham radio (especially those of us who operate @ low power) is much, much, much better off with your kits, your intellect, and your perseverance to get the parts you wish.

72/73 de n8xx Hg

On 2/28/2012 12:01 PM, Steven Weber wrote:
> □
>
> Well, it seems the LM386's I ordered were made by JRE, but Mouser and
> Digi-Key have 1000's of SMT LM386's in stock made by National Semi.
> Whew - the world is not coming to an end after all and I can proceed
> as planed.
> It always seems the one part I don't check stock for before I order is
> always the one to give me trouble. Just because you bought something a
> few months ago, doesn't mean you can still get it today!
> Steve

8433. Re: [AT_Sprint] MTR production problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 22:51:26 UTC
From: Hank Greeb
Topic: 8426 Message: 8433

Steve:

use a 6V6 tube. It has about the same overall gain. :)

p.s. glad you found another source of the LM-386 audio amp. I can't
believe it can be obsolete by now.

On 2/28/2012 11:42 AM, Steven Weber wrote:
>
>
> I started ordering parts for the MTR yesterday. Today I got a message
> from Mouser saying the SO-8 LM386 audio amp is now a non-stocked item
> and I would have to buy 2000 of them for some $800 and wait 16 weeks
> to get any at all! They did have 48 left in stock which they sent me,
> but I need 102 more!
> So, I just bought $4,000 worth of parts (to start) and can't use any
> of them because I can't get one 50 cent chip! Should I shoot my foot
> now or later? I really hate when they do things like this to me!
> The good news is I haven't ordered the boards yet, so thats about
> $1,000 I won't have to throw away. Time to start looking for a subsitute.
> Hope your day is going better...
> Steve KD1JV

8434. Re: [AT_Sprint] MTR production problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 23:19:09 UTC
From: Bill Noyce
Topic: 8426 Message: 8434

Hi Steve --
Can you modify the board to use a TDA2822M stereo amp in 8 pin DIP?
-- Bill, AB1AV
On Feb 28, 2012 11:42 AM, "Steven Weber" <steve.kd1jv@...> wrote:

> **
>
>
> **
> I started ordering parts for the MTR yesterday. Today I got a message from
> Mouser saying the SO-8 LM386 audio amp is now a non-stocked item and I
> would have to buy 2000 of them for some $800 and wait 16 weeks to get any
> at all! They did have 48 left in stock which they sent me, but I need 102
> more!
>
> So, I just bought $4,000 worth of parts (to start) and can't use any of
> them because I can't get one 50 cent chip! Should I shoot my foot now or
> later? I really hate when they do things like this to me!
>
> The good news is I haven't ordered the boards yet, so thats about $1,000 I
> won't have to throw away. Time to start looking for a subsitute.
>
> Hope your day is going better...
>
> Steve KD1JV
>
>

8435. Re: [AT_Sprint] MTR production problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 23:21:05 UTC
From: Bill Noyce
Topic: 8426 Message: 8435

of course I meant 8 pin SOIC.
-- Bill
On Feb 28, 2012 6:19 PM, "Bill Noyce" <wbnoyce@...> wrote:

> Hi Steve --
> Can you modify the board to use a TDA2822M stereo amp in 8 pin DIP?
> -- Bill, AB1AV
> On Feb 28, 2012 11:42 AM, "Steven Weber" <steve.kd1jv@...> wrote:
>
>> **
>>
>>
>> **
>> I started ordering parts for the MTR yesterday. Today I got a message
>> from Mouser saying the SO-8 LM386 audio amp is now a non-stocked item and I
>> would have to buy 2000 of them for some $800 and wait 16 weeks to get any
>> at all! They did have 48 left in stock which they sent me, but I need 102
>> more!
>>
>> So, I just bought $4,000 worth of parts (to start) and can't use any of
>> them because I can't get one 50 cent chip! Should I shoot my foot now or
>> later? I really hate when they do things like this to me!
>>
>> The good news is I haven't ordered the boards yet, so thats about $1,000
>> I won't have to throw away. Time to start looking for a subsitute.
>>
>> Hope your day is going better...
>>
>> Steve KD1JV
>>
>>
>

8436. Re: [AT_Sprint] False alarm!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 23:25:54 UTC
From: John Taylor
Topic: 8429 Message: 8436

Steve is there a list started for orders? I want one for sure.
Thanks

John Taylor,K0QH

From: Steven Weber <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Tue, February 28, 2012 11:01:52 AM
Subject: [AT_Sprint] False alarm!

□
Well, it seems the LM386's I ordered were made by JRE, but Mouser and Digi-Key have 1000's of SMT LM386's in stock made by National Semi. Whew - the world is not coming to an end after all and I can proceed as planed.

It always seems the one part I don't check stock for before I order is always the one to give me trouble. Just because you bought something a few months ago,

doesn't mean you can still get it today!

Steve

8437. Re: [AT_Sprint] False alarm!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-28 23:57:48 UTC
From: Paul Smith
Topic: 8429 Message: 8437

If Steve would start a list I will send the money for one! de Paul Smith N0NBD

From: John Taylor
Sent: Tuesday, February 28, 2012 5:25 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] False alarm!

Steve is there a list started for orders? I want one for sure.
Thanks

John Taylor,K0QH

From: Steven Weber <steve.kd1jv@gmail.com>
To: AT_Sprint@yahoogroups.com
Sent: Tue, February 28, 2012 11:01:52 AM
Subject: [AT_Sprint] False alarm!

□
Well, it seems the LM386's I ordered were made by JRE, but Mouser and Digi-Key have 1000's of SMT LM386's in stock made by National Semi. Whew - the world is not coming to an end after all and I can proceed as planed.

It always seems the one part I don't check stock for before I order is always the one to give me trouble. Just because you bought something a few months ago,

doesn't mean you can still get it today!

Steve

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1424 / Virus Database: 2113/4836 - Release Date: 02/27/12

8438. Re: [AT_Sprint] Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-29 02:03:58 UTC
From: Justin Pinnix
Topic: 8404 Message: 8438

Tim's not alone, there are plenty of us younger folks building and using CW rigs.

On Tue, Feb 28, 2012 at 11:58 AM, Dale Putnam <daleputnam@hotmail.com>wrote:

> **
>
>
> That example alone, gives me great hope, and I believe Tim should be
> congratulated, and given a pat on the back,
> with exuberance.!!
> Way to GE TIM!!
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: tim@timgoodrich.com
> Date: Tue, 28 Feb 2012 08:26:47 -0800
> Subject: [AT_Sprint] Re: MTR and JTAG-Pins
>
>
>
>
> “Old Geezer” and “CW” are not mutually exclusive. I’m 31 and have been
> using CW for 2 years now. In fact, I do 95% of my operating using CW now.
>
>
>
> Tim
>
> K6TW
>
>
>
>

8439. RE: [AT_Sprint] Re: MTR and JTAG-Pins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-29 02:05:50 UTC
From: Dale Putnam
Topic: 8404 Message: 8439

And congratulations and a warm pat on the back to each of you too!!

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: justin@fuzzythinking.com
Date: Tue, 28 Feb 2012 21:03:58 -0500
Subject: Re: [AT_Sprint] Re: MTR and JTAG-Pins

Tim's not alone, there are plenty of us younger folks building and using CW rigs.
On Tue, Feb 28, 2012 at 11:58 AM, Dale Putnam <daleputnam@hotmail.com> wrote:

That example alone, gives me great hope, and I believe Tim should be congratulated, and given a pat on the back,
with exuberance.!!
Way to GE TIM!!

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: tim@timgoodrich.com

Date: Tue, 28 Feb 2012 08:26:47 -0800
Subject: [AT_Sprint] Re: MTR and JTAG-Pins

“Old Geezer” and “CW” are not mutually exclusive. I’m 31 and have been using CW for 2 years now. In fact, I do 95% of my operating using CW now.
TimK6TW

8440. Re: [AT_Sprint] Radio oil powerd lamp still on the market in Germanie

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-29 03:13:21 UTC
From: Cy Currier
Topic: 8242 Message: 8440

guess what? they won't do business w the U.S.= won't accept orders, and won't ship. too bad. Uncle Cy

----- Original Message -----
> From: jor <kthkit@...>
> To: AT_Sprint@yahoogroups.com
> Cc:
> Sent: Thursday, February 2, 2012 2:31 PM
> Subject: [AT_Sprint] Radio oil powerd lamp still on the market in Germanie
>
>T his site sell the LUPO oil powerd radio lamp.
> May be also usefull for QRP use
>
> http://www.pelam.de/pdf_datasheet.php?products_id=530
>
> 73' Joris PE1KTH
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

8441. Re: MTR production problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-29 03:20:54 UTC
From: Tom
Topic: 8426 Message: 8441

"Steven Weber" <steve.kd1jv@...> wrote:
> The good news is I haven't ordered the boards yet,.....
> Steve KD1JV
>

uhhh, I've been trying to figure out all evening how this is good news!!!????? :-)

Hurry up and order those boards!! And better make it 300 instead of 150. What are ya trying to do, make these "Special Edition Collector Radios"??
Lots of builders are anxiously waiting!!!
73, Tom

8442. Re: [AT_Sprint] Radio oil powerd lamp still on the market in Germanie

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-29 03:36:41 UTC
From: nicehouse101@yahoo.com
Topic: 8242 Message: 8442

I see lots of them on the internet.
Here is one link.

http://www.preparedsociety.com/forum/f16/oil-lamp-powered-radio-3305/

From: Cy Currier <k1tes@...>
To: "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
Sent: Tuesday, February 28, 2012 7:13 PM
Subject: Re: [AT_Sprint] Radio oil powerd lamp still on the market in Germanie

guess what? they won't do business w the U.S.= won't accept orders, and won't ship. too bad. Uncle Cy

----- Original Message -----
> From: jor <kthkit@...>
> To: AT_Sprint@yahoogroups.com
> Cc:
> Sent: Thursday, February 2, 2012 2:31 PM
> Subject: [AT_Sprint] Radio oil powerd lamp still on the market in Germanie
>
>T his site sell the LUPO oil powerd radio lamp.
> May be also usefull for QRP use
>
> http://www.pelam.de/pdf_datasheet.php?products_id=530
>
> 73' Joris PE1KTH
>
>
>
> ---
>
> Yahoo! Groups Links
>
>
>

8443. Re: MTR production problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-29 04:28:17 UTC
From: Tom
Topic: 8426 Message: 8443

lest anyone else takes offense at my previous post, this was totally meant in jest and good humor. 73, Tom

--- In AT_Sprint@yahoogroups.com, "Tom" <tmoll150@...> wrote:
>
>
> "Steven Weber" <steve.kd1jv@> wrote:
> > The good news is I haven't ordered the boards yet,.....
> > Steve KD1JV
> >
>
> uhhh, I've been trying to figure out all evening how this is good news!!!????? :-)
>
> Hurry up and order those boards!! And better make it 300 instead of 150. What are ya trying to do, make these "Special Edition Collector Radios"??
> Lots of builders are anxiously waiting!!!
> 73, Tom
>

8444. MTR pre-orders and other questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-29 17:23:58 UTC
From: Steven Weber
Topic: 8444 Message: 8444

Gang,

I've been getting a fair number of questions about taking pre-orders or reserving kits. If your one of these people, you'll notice I don't answer these questions.

My policy is I don't take pre-orders, pre-payments or make lists. It just increase the amount of work I have to do to keep track of it all, and commits me to making good on it. The time I have to spend doing all that is time I can't spend doing something else.

Then there is the ethical delema. Do I let a few people have preferental treatment by reserving kits or taking pre-payment from them? If I did that for a few, I would have to do it for all and that ends up no different then simply selling them when they are ready to go. I would rather wait to do that job when it's time to do that job, so it doesn't interfere with the jobs which have to be done first.

Finally, I wish I could supply more than a limited number of kits at one time, but I have to keep the volumes down to keep this looking like a hobby. As soon as it starts looking like a real buisness, things get much more complicated and we really don't want to go there...

Steve KD1JV

8445. Re: [AT_Sprint] MTR pre-orders and other questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-29 18:15:12 UTC
From: Richard F5VJD
Topic: 8444 Message: 8445

Hi Steve

You've always made your policy very clear and I totally understand your reasons; Tony Parks takes the same stance with his hugely popular 'Softrock' kits. It is, of course, a huge compliment and a witness to the quality of your kits that we are all anxious to get our hands on one... or two, or three or more!

And here is my reason for writing: if the first batch is to be limited to 150 units, wouldn't it be only fair and reasonable guys if each of us limited ourselves to buying just the one kit until Steve has been able to satisfy the initial demand?

Just a thought...

73

Richard F5VJD

On 29/02/2012 18:23, Steven Weber wrote:
>
> Gang,
>
> I've been getting a fair number of questions about taking pre-orders or
> reserving kits. If your one of these people, you'll notice I don't answer
> these questions.
>
> My policy is I don't take pre-orders, pre-payments or make lists. It just
> increase the amount of work I have to do to keep track of it all, and
> commits me to making good on it. The time I have to spend doing all
> that is
> time I can't spend doing something else.
>
> Then there is the ethical delema. Do I let a few people have preferental
> treatment by reserving kits or taking pre-payment from them? If I did
> that
> for a few, I would have to do it for all and that ends up no different
> then
> simply selling them when they are ready to go. I would rather wait to do
> that job when it's time to do that job, so it doesn't interfere with the
> jobs which have to be done first.
>
> Finally, I wish I could supply more than a limited number of kits at one
> time, but I have to keep the volumes down to keep this looking like a
> hobby.
> As soon as it starts looking like a real buisness, things get much more

> complicated and we really don't want to go there...
>
> Steve KD1JV
>
>

8446. Re: [AT_Sprint] MTR pre-orders and other questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-29 23:28:09 UTC
From: Peter Martin
Topic: 8444 Message: 8446

On Wed, Feb 29, 2012 at 6:15 PM, Richard F5VJD <f5vjd@...> wrote:

>
>
>
> And here is my reason for writing: if the first batch is to be limited to
> 150 units, wouldn't it be only fair and reasonable guys if each of us
> limited ourselves to buying just the one kit until Steve has been able to
> satisfy the initial demand?
>
> Just a thought...
>
> 73
>
> Richard F5VJD
>
>
>
I concur with you Richard, but of course it's a free market, and those that want to buy multiple kits probably will regardless.

I'd very much like the MTR but if I don't get lucky, at least I still have my very much loved ATS4! I know there are those on this list who are waiting patiently in the hope of picking up just one of Steve's rigs. I'm also pretty sure there are others who have many iterations of the ATS and probably a lot of unbuilt kits in people's "collections". I think Steve should work on an expiry mechanism along the lines of mission impossible;

"this kit is now 12 months old. Your mission is to either build it or donate to a worthy owner otherwise this kit will self destruct in...."

73
Pete

8447. Re: [AT_Sprint] MTR pre-orders and other questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-02-29 23:33:23 UTC
From: Steven Carr
Topic: 8444 Message: 8447

a benefit of waiting for the second batch to buy your second unit is
that it may include bug fixes or other improvements...

On 02/29/2012 06:28 PM, Peter Martin wrote:
>
>
>
> On Wed, Feb 29, 2012 at 6:15 PM, Richard F5VJD <f5vjd@...
> <mailto:f5vjd@...>> wrote:
>
>
>
>
> And here is my reason for writing: if the first batch is to be
> limited to 150 units, wouldn't it be only fair and reasonable guys
> if each of us limited ourselves to buying just the one kit until
> Steve has been able to satisfy the initial demand?
>
> Just a thought...
>
> 73
>
> Richard F5VJD
>
>
>
> I concur with you Richard, but of course it's a free market, and those
> that want to buy multiple kits probably will regardless.
>
> I'd very much like the MTR but if I don't get lucky, at least I still
> have my very much loved ATS4! I know there are those on this list who
> are waiting patiently in the hope of picking up just one of Steve's
> rigs. I'm also pretty sure there are others who have many iterations
> of the ATS and probably a lot of unbuilt kits in people's
> "collections". I think Steve should work on an expiry mechanism
> along the lines of mission impossible;
>
> "this kit is now 12 months old. Your mission is to either build it or
> donate to a worthy owner otherwise this kit will self destruct in...."
>
> 73
> Pete
>

8448. Re: [AT_Sprint] MTR production problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-01 01:09:37 UTC
From: Cy Currier
Topic: 8426 Message: 8448

Hi Steve'
i got some fm "future electronics" and i believe "Futurlec"(a different co) has them as well.
Uncle Cy

PS i expect to go to Dayton. on the way back i could drop u at Hazelton, or Willks-Barre so u would only be on

a bus fr a short time. lay ur phone # on me and we can discuss it Uncle cy

>_____
> From: Steven Weber <steve.kd1jv@gmail.com>
>To: AT_Sprint@yahoogroups.com
>Sent: Tuesday, February 28, 2012 10:42 AM
>Subject: [AT_Sprint] MTR production problems
>
>
>
>
>
>
>I started ordering parts for the MTR yesterday.
Today I got a message from Mouser saying the SO-8 LM386 audio amp is now a non-stocked item and I would have to buy 2000 of them for some $800 and wait 16 weeks to get any at all! They did have 48 left in stock which they sent me, but I need 102 more!
>
>So, I just bought $4,000 worth of parts (to start)
and can't use any of them because I can't get one 50 cent chip! Should I shoot my foot now or later? I really hate when they do things like this to me!
>
>The good news is I haven't ordered the boards yet,
so thats about $1,000 I won't have to throw away. Time to start looking for a subsitute.
>
>Hope your day is going better...
>
>Steve KD1JV
>
>
>
>
>

8449. Speaker

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-01 01:23:07 UTC
From: Chris Fowler
Topic: 8449 Message: 8449

I just found this:

http://www.dealextreme.com/p/mini-rechargeable-3w-speaker-for-iphone-black-3-5mm-plug-118496

Might work well with ATS4

73,
Chris k4fh

8450. Re: [AT_Sprint] MTR production problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-01 15:42:02 UTC
From: Justin Pinnix
Topic: 8426 Message: 8450

You guys did see Steve's post from 4 days ago that this was a false alarm
and he has found ample parts, right?

On Wed, Feb 29, 2012 at 8:09 PM, Cy Currier <k1tes@...> wrote:

> **
>
>
> Hi Steve'
> i got some fm "future electronics" and i believe "Futurlec"(a different
> co) has them as well.
> Uncle Cy
>
> PS i expect to go to Dayton. on the way back i could drop u at Hazelton,
> or Willks-Barre so u would only be on
> a bus fr a short time. lay ur phone # on me and we can discuss it Uncle cy
>
> ---
> *From:* Steven Weber <steve.kd1jv@...>
> *To:* AT_Sprint@yahoogroups.com
> *Sent:* Tuesday, February 28, 2012 10:42 AM
> *Subject:* [AT_Sprint] MTR production problems
>
>
>
> I started ordering parts for the MTR yesterday. Today I got a message from
> Mouser saying the SO-8 LM386 audio amp is now a non-stocked item and I
> would have to buy 2000 of them for some $800 and wait 16 weeks to get any
> at all! They did have 48 left in stock which they sent me, but I need 102
> more!
>
> So, I just bought $4,000 worth of parts (to start) and can't use any of
> them because I can't get one 50 cent chip! Should I shoot my foot now or
> later? I really hate when they do things like this to me!
>
> The good news is I haven't ordered the boards yet, so thats about $1,000 I
> won't have to throw away. Time to start looking for a subsitute.
>
> Hope your day is going better...
>
> Steve KD1JV
>
>
>
>

>
>

8451. Re: [AT_Sprint] MTR pre-orders and other questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-01 15:44:20 UTC
From: Justin Pinnix
Topic: 8444 Message: 8451

Where speculation meets procrastination :-)

On Wed, Feb 29, 2012 at 6:28 PM, Peter Martin <paradoxpete.pdm@...>wrote:

> **
> I think Steve should work on an expiry mechanism along the lines of
> mission impossible;
>
> "this kit is now 12 months old. Your mission is to either build it or
> donate to a worthy owner otherwise this kit will self destruct in...."
>
>

8452. ATS4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-02 01:19:46 UTC
From: bob_nelson_k2qpn
Topic: 8452 Message: 8452

Just finished my ATS4 (original). All the controls work fine. Calibration mode seemed to work except as noted below. I see three problems:

1. Calibration mode CAOS. Centering seems to work. But the BFO frequency counter stays at 0000. The tone changes when I adjust the BFO trimmer. I set the frequency using a counter on the audio output.

2. The receiver is deaf on all bands. A 1 uv signal is not audible. Stronger signals are audible and seem normal. Plenty of audio output.

3. No output from the transmitter on all bands - zero on the wattmeter. Nothing heard in a nearby receiver. Transmitter keys and the sidetone is OK.

Ideas??

73, Bob K2QPN

8453. Re: [AT_Sprint] ATS4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-02 04:02:45 UTC
From: Steven Weber
Topic: 8452 Message: 8453

Either you don't have all the switches in the right positions or there is an open either on the input side or output side connecting to all the low pass filters.

> 2. The receiver is deaf on all bands. A 1 uv signal is not audible.
> Stronger signals are audible and seem normal. Plenty of audio output.
>
> 3. No output from the transmitter on all bands - zero on the wattmeter.
> Nothing heard in a nearby receiver. Transmitter keys and the sidetone is
> OK.

8454. Re: False alarm!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-02 05:17:48 UTC
From: radio_kx0r
Topic: 8429 Message: 8454

Steve,

You probably know this already, but others here may not - so here's what I do first when I'm looking for parts:

Purchasing Electronic Parts 101

Go to www.findchips.com

This is a free website that finds parts at distributors. If you type in a partial part number, such as: LM386 , you will see many different manufacturers' part numbers available, with links to the parts at several distributors. Then you can sort out the differences among the similar parts (case style, packaging, manufacturer, price, etc.), see where the stock is, and go to the distributor you choose to order from.

With a popular part like LM386 there are numerous choices, and choosing the right part(s) is not trivial.

Manufacturers use different suffixes for essentially equivalent parts, so often you must study the various data sheets - which you can via links in the distributor listings - to verify which parts from manufacturer "A" are equivalent to differently-named parts from manufacturer "B".

If you really know the exact, complete part number you want, you can type that into the Findchips search box and see just those parts and who has them....but do your homework first, or you might miss equivalent parts made by another manufacturer.

Findchips is extremely useful - it searches for capacitors, resistors, relays, etc. - all kinds of parts listed at distributors. The distributors provide this data so that WE can find and buy their parts !! We can save money and time by using this site to shop around. When doing a new design, it is useful to see what availability is like for a particular part. If there is little or no stock, it might be a red flag. Often Findchips will lead you to the popular, low-cost parts that the volume manufacturers are running with!!

Findchips isn't perfect - not all distributors participate, so you can't see all the stock out there. The Findchips data may not be quite as fresh as what's at the distributor's website, so if you're chasing a scarce part, you have to contact the distributor(s) to verify if the stock is really there, and you have to buy what you need fast before other buyers get to it.

There are numerous brokers who make a good living buying up scarce or obsolete parts and then selling them back once people realize they're almost gone.

If you really need a part that is obsolete or out-of-stock, using a trusted broker or "independent distributor" is often effective and well worth the price. These guys have very deep, powerful search tools that are not available to most of us, and they have networks of suppliers, often overseas.

If you're buying large quantities of parts, you can often get much better pricing from distributors than what they list on their websites. Just call them or email and and ask for a quote. They want your business. Prices can get better if they know you and you deal straight with them.

That's most of the game.

Carey Fuller
KX0R

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Well, it seems the LM386's I ordered were made by JRE, but Mouser and Digi-Key have 1000's of SMT LM386's in stock made by National Semi. Whew - the world is not coming to an end after all and I can proceed as planed.
>
> It always seems the one part I don't check stock for before I order is always the one to give me trouble. Just because you bought something a few months ago, doesn't mean you can still get it today!
>
> Steve
>

8455. Re: MTR pre-orders and other questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-02 17:29:43 UTC
From: ok2mr
Topic: 8444 Message: 8455

Steve,

I am absolutely not against your policy for pre-orders and pre-payments, I know very well what does it mean with regards to administration, especially when handling such a small transactions and doing it as hobby in your free time. In different post on this forum we can see how complicated are tasks that must be completed by you, not only the design but whole manufacturing process, buying parts from various vendors. Recently I was putting together something really simple by myself and in the end I had to purchase parts from five different places. The only thing I ask you is to agree on a communication channel for letting people know that the kit is ready and the way you are going to take orders. If you agree that this forum is going to be the first communication channel and that you plan, somewhere in the future to post information that the kit is ready together with an email address for taking orders, it is absolutely fine in case that you will honor order of incoming messages with orders and some reasonable limit of let us say two to three kits per person. The advantage of doing this is another promotion of the forum itself as you can make sure that all interested parties will read it VERY carefully. Also it will ensure that everyone ordering the kit will be really interested in it at the time of order compared to the situation with pre-orders when one may pre-order something and actually lose interest in it during waiting for manufacture and delivery process. Internet is full of various distractions so it can happen very easily.

Good luck with kit preparation and manufacturing, I hope to be between those lucky ones to get one from the first production batch (taking the risk that the first batch might contain bugs as it happens even if you try really hard to avoid them).

Have a nice weekend,

Martin, OK2MR

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Gang,
>
> I've been getting a fair number of questions about taking pre-orders or
> reserving kits. If your one of these people, you'll notice I don't answer
> these questions.
>
> My policy is I don't take pre-orders, pre-payments or make lists. It just
> increase the amount of work I have to do to keep track of it all, and
> commits me to making good on it. The time I have to spend doing all that is
> time I can't spend doing something else.
>
> Then there is the ethical delema. Do I let a few people have preferental
> treatment by reserving kits or taking pre-payment from them? If I did that
> for a few, I would have to do it for all and that ends up no different then
> simply selling them when they are ready to go. I would rather wait to do

> that job when it's time to do that job, so it doesn't interfere with the
> jobs which have to be done first.
>
> Finally, I wish I could supply more than a limited number of kits at one
> time, but I have to keep the volumes down to keep this looking like a hobby.
> As soon as it starts looking like a real buisness, things get much more
> complicated and we really don't want to go there...
>
> Steve KD1JV
>

8456. MTR progress

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-02 23:02:09 UTC
From: Steven
Topic: 8456 Message: 8456

The first box of parts arrived the other day, which was important since it contained the little SMT trimmer caps the board will be using. I needed to see these to make sure I had the proper pad spacing and part outline. With that comfermed, I can now order the final boards. These new trimmers are easier to adjust since they don't require a screw driver with a 1/64" tip.

I tested the Pocketdigi interface and that works and there is still pleanty of program memory space left over, so I will keep Pocketdigi digital modes in the rig.

I tested the transmitter using Red T30-2 cores for the 20 M LPF and got them to work fine. The spectral purity of this rig is very good, only a few spurs and none more than about -55 dBc.

My last little problem was getting the keyer memories to work. It turns out the new processor the MTR uses has four, 64 byte information memory blocks, instead of two 128 byte blocks the older processor used. This caused the old keyer memory routine to not work correctly.

Having four memory blocks is actually better. Three are used for the keyer memory and each of the three memories now has its own memory block. So now, instead of programming all three memories at once, they each can be individually programmed and if you want to change one, you don't have to redo them all.

The fourth memory block contains factory calibration data for the processor clock in it. My next task is to preserve that data and add to it when doing a frequency calibration of the rig.

So, we're moving right along with this project. A few more things to order and the manual to finish. I think I'm on track to start taking orders and start shipping before the end of the month.

Steve KD1JV

8457. Re: [AT_Sprint] MTR progress

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-02 23:57:55 UTC
From: Randy Moore
Topic: 8456 Message: 8457

Steve,

Thanks for keeping us so well informed of the status on the MTR!

Is the price still looking to be around $100?

Randy

On Mar 2, 2012, at 5:02 PM, "Steven" <steve.kd1jv@...> wrote:

> The first box of parts arrived the other day, which was important since it contained the little SMT trimmer caps the board will be using. I needed to see these to make sure I had the proper pad spacing and part outline. With that comfermed, I can now order the final boards. These new trimmers are easier to adjust since they don't require a screw driver with a 1/64" tip.
>
> I tested the Pocketdigi interface and that works and there is still pleanty of program memory space left over, so I will keep Pocketdigi digital modes in the rig.
>
> I tested the transmitter using Red T30-2 cores for the 20 M LPF and got them to work fine. The spectral purity of this rig is very good, only a few spurs and none more than about -55 dBc.
>
> My last little problem was getting the keyer memories to work. It turns out the new processor the MTR uses has four, 64 byte information memory blocks, instead of two 128 byte blocks the older processor used. This caused the old keyer memory routine to not work correctly.
>
> Having four memory blocks is actually better. Three are used for the keyer memory and each of the three memories now has its own memory block. So now, instead of programming all three memories at once, they each can be individually programmed and if you want to change one, you don't have to redo them all.
>
> The fourth memory block contains factory calibration data for the processor clock in it. My next task is to preserve that data and add to it when doing a frequency calibration of the rig.
>
> So, we're moving right along with this project. A few more things to order and the manual to finish. I think I'm on track to start taking orders and start shipping before the end of the month.
>
> Steve KD1JV
>
>

8459. Fwd: Panel Mount BNC Jack for ATS-4b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-03 03:20:29 UTC
From: Rob Steenburgh
Topic: 8459 Message: 8459
Attachments: 3 described; binary payloads are missing from this source WARC

I was having trouble with an intermittent antenna connection at the RCA jack. I tried three different adapters (2 commercial and one home brew) and re-checked the jack itselft. Still no luck.

Since most of my QRP interconnects use BNC connectors, I decided to add one to the ATS-4b. Steve notes in the manual "It might be possible to replace the supplied RCA antenna jack with a BNC type by enlarging the hole, provided the new BNC jack has a short threaded section."

I couldn't find any BNC jacks with a short enough threaded section until I stumbled across the Amphenol 31-4237 at Newark.<http://www.newark.com/jsp/search/productdetail.jsp?SKU=94F155> It's pricey at $10, but I was willing to sacrifice a few other luxeries to give it a try. Turns out it worked great and provided just enough board clearance. No more intermittent connections.

During assembly, I also partially melted the power connector rendering it useless. I had been running the rig with a pigtail out the hole with a 2.1x 5.5 mm in-line jack. I ordered a replacement panel mount jack from Digikey (part no CP-011A-ND<http://search.digikey.com/scripts/DkSearch/dksus.dll?WT.z_header=search_go&lang=en&site=us&keywords=CP-011A-ND&x=10&y=17>) made by CU Inc. I had to do a bit of work with the Dremel to get it to fit, but not too much.

The nice thing about both these connectors is I can remove the entire board from the case without having to pull out the soldering iron.

Cheers,
Rob
KA8JBY

8460. Suggested pocket pc for running pocketdigi

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-03 18:09:07 UTC
From: William
Topic: 8460 Message: 8460

I admit I am a novice with regard to digital modes. I have had lots of fun on cw with my ats4 and would like to try it's digital capabilities.
I'm looking for a reasonably priced pocket PC for use with the pocketdigi program. Wifi or 3G capability would be a plus to allow internet access. What have you guys been using? What specs should I look for?

Bill/ wv1n

8461. ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-03 19:33:17 UTC
From: Mike
Topic: 8461 Message: 8461

Hi,

My ATS3 has been having problems on 20 meters. Power sometimes drops out and, if I wiggle the band module, power output will vary from a few mW to full power. This only happens with the 20 meter band module so seems to be a problem with that module and not anything on the main board.

I've tried reflowing the solder on everything on the module - no help - so it looks like a problem with the mating of the module connector. I've done a lot of fiddling with pins 5 thru 7, bending them a bit in different ways for better contact, etc. This seems to help for a time but the problem reappears.

Does anyone have any suggestions on how to fix this? Anyone out there had a similar problem?

73,

Mike - ke5akl

8462. RE: [AT_Sprint] ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-03 19:41:46 UTC
From: Dale Putnam
Topic: 8461 Message: 8462

It might be helpful to deoxit the connector on the band mod.... or just swap it out.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: ke5akl@...
Date: Sat, 3 Mar 2012 19:33:17 +0000
Subject: [AT_Sprint] ATS3 Band Module Connector Problem

Hi,

My ATS3 has been having problems on 20 meters. Power sometimes drops out and, if I wiggle the band module, power output will vary from a few mW to full power. This only happens with the 20 meter band module so seems to be a problem with that module and not anything on the main board.

I've tried reflowing the solder on everything on the module - no help - so it looks like a problem with the mating of the module connector. I've done a lot of fiddling with pins 5 thru 7, bending them a bit in different ways for better contact, etc. This seems to help for a time but the problem reappears.

Does anyone have any suggestions on how to fix this? Anyone out there had a similar problem?

73,

Mike - ke5akl

8463. Re: ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-03 20:10:36 UTC
From: Mike
Topic: 8461 Message: 8463

Dale,

Tried Deoxit and it didn't help. It may come to replacing the module connector but was hoping someone might have had a similar problem and have a fix short of that. Pulling it off doesn't look like a lot of fun... :-)

73,

Mike

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> It might be helpful to deoxit the connector on the band mod.... or just swap it out.
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: ke5akl@...
> Date: Sat, 3 Mar 2012 19:33:17 +0000
> Subject: [AT_Sprint] ATS3 Band Module Connector Problem
>
>
>

8464. Re: [AT_Sprint] Re: ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-03 20:18:33 UTC
From: Colin Tuckley
Topic: 8461 Message: 8464

On 03/03/12 20:10, Mike wrote:

> Tried Deoxit and it didn't help. It may come to replacing the module
> connector but was hoping someone might have had a similar problem and
> have a fix short of that. Pulling it off doesn't look like a lot of
> fun... :-)

If moving the module makes a difference I'd suspect a cracked track, or
maybe a fractured wire on a toroid.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

To poldly bow air mobius gumby four: Trek on novocaine.

8465. Re: ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-03 20:32:10 UTC
From: cloud runner
Topic: 8461 Message: 8465

From what you have done, Mike, I suspect a broken trace in the band module.

fred -kt5x

If moving the module makes a difference I'd suspect a cracked track, or
maybe a fractured wire on a toroid.

Colin G8TMV

--.

8466. Re: ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-03 20:46:31 UTC
From: Mike
Topic: 8461 Message: 8466

Colin,

Yes, I've been wondering about a bad trace myself. The thing is it's not a purely on/off kind of thing. Wiggling it can change the power output to values throughout the range. It's an odd problem.

Mike

--- In AT_Sprint@yahoogroups.com, Colin Tuckley <colin@...> wrote:
>

> If moving the module makes a difference I'd suspect a cracked track, or
> maybe a fractured wire on a toroid.
>
> Colin G8TMV
>
> --
> Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
> Debian Developer | +44(0)7799 143369 | 0x1B3045CE
>
> To poldly bow air mobius gumby four: Trek on novocaine.
>

8467. Re: [AT_Sprint] ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-03 23:47:37 UTC
From: Stephen Wandling
Topic: 8461 Message: 8467

Given the results is a random output value, this would seem to rule out a bad trace. Since the LPF is two toroids and 4 caps (I am looking at the ATS3B schematic), and unless a lead on one toroid was never properly cleaned and tinned, I would suspect a capacitor. If one is cracked or shows other signs of a problem, then this might cause a variable that matches your symptoms.

72 Stephen VE7NSD
On 03/03/2012 11:33 AM, Mike wrote:
> Hi,
>
> My ATS3 has been having problems on 20 meters. Power sometimes drops out and, if I wiggle the band module, power output will vary from a few mW to full power. This only happens with the 20 meter band module so seems to be a problem with that module and not anything on the main board.
>
> I've tried reflowing the solder on everything on the module - no help - so it looks like a problem with the mating of the module connector. I've done a lot of fiddling with pins 5 thru 7, bending them a bit in different ways for better contact, etc. This seems to help for a time but the problem reappears.
>
> Does anyone have any suggestions on how to fix this? Anyone out there had a similar problem?
>
> 73,
>
> Mike - ke5akl
>
>
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> Yahoo! Groups Links
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8468. Re: ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 00:08:47 UTC
From: radio_kx0r
Topic: 8461 Message: 8468

My guess it's a cracked ceramic capacitor, or a cracked connection, right where a lead solders to the ceramic chip under the epoxy coating.

Losing the cap would not make the power zero - instead it would just drop lower due to the imperfect match. Flexing the board might make it connect and disconnect.

Inspect everything with a very bright light and strong magnification. Any crack in the epoxy near the chip ends points to trouble. These small MC caps are delicate. A bad solder joint on a capacitor lead might have the same symptoms.

One way to find the problem would be to remove the module from the ATS rig, inject RF from a signal generator into the module's output, and connect a scope to the input - or vice-versa. Then probe each part physically to see if you can locate where the connection is intermittent. Whatever changes the level on the scope should be examined for the root cause.

It's not a good idea to run the ATS finals into this kind of bad load, even for tests. Keep the voltage below 7V if you persist.

Hope you find the problem!

Carey
KX0R

--- In AT_Sprint@yahoogroups.com, Stephen Wandling <swandling@...> wrote:
>
> Given the results is a random output value, this would seem to rule out
> a bad trace. Since the LPF is two toroids and 4 caps (I am looking at
> the ATS3B schematic), and unless a lead on one toroid was never properly
> cleaned and tinned, I would suspect a capacitor. If one is cracked or
> shows other signs of a problem, then this might cause a variable that
> matches your symptoms.
>
> 72 Stephen VE7NSD
> On 03/03/2012 11:33 AM, Mike wrote:
> > Hi,
> >
> > My ATS3 has been having problems on 20 meters. Power sometimes drops out and, if I wiggle the band module, power output will vary from a few mW to full power. This only happens with the 20 meter band module so seems to be a problem with that module and not anything on the main board.
> >
> > I've tried reflowing the solder on everything on the module - no help - so it looks like a problem with the mating of the module connector. I've done a lot of fiddling with pins 5 thru 7, bending them a bit in different ways for better contact, etc. This seems to help for a time but the problem reappears.
> >

> > Does anyone have any suggestions on how to fix this? Anyone out there had a similar problem?
> >
> > 73,
> >
> > Mike - ke5akl
> >
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> > Yahoo! Groups Links
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8469. Re: MTR Audio Low Pass Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 00:26:06 UTC
From: radio_kx0r
Topic: 8401 Message: 8469

Steve,

I tried the 470 pf mod, adding a 470 pf cap across R3 on my ATS-3B, and I didn't really like it. I definitely got a change. With the 470 pf across R3, the treble was rolled off a bit, and while it sounded smoother, signals in the RF/audio passband, the onces we want to hear, lost some presence. I tried the mod with weak and strong signals, and I decided to leave the radio alone.

When I'm trying to work someone really weak, in a quiet location, I would have more trouble copying the guy if I did that mod on my ATS-3B.

I'd suggest testing the mod before doing it permanently.

I never tried the mod on the output of the product detector.

Carey
KX0R

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> It doesn't matter much if the cap goes to ground or across the resistor. Doing the mod to the 3's, its easier to put it across the resistor. It was easier to put it to ground when laid out on the board.
>
> The 470 pf mod will make the most difference. You can use a leaded part of course.
>
> Steve
>
>
> I am looking at the skematics of my ATS3B and my ATS4B and comparing to understand these mods.
>
>
> * the 470 pf you say to put "across" the 330K (which I believe is R3 on the ATS3B skematic) ... but in the ATS4B skematic, there is a C23 470 pf cap from the pin 3 end of the 330K R3 to ground.
>
> Q should it be across the resistor or from pin 3 to ground as shown in the ATS4B skematic?
>
> * The two caps to remove are identified as C13 and C14 on the ATS3B skematic, removed and replaced by the cap identified as C13 on the ATS4B skematic.
>
> Are these mods separately helpful, or should only be done together? I can do the second mod using one of the caps removed, but the other mod, I don't know if I have a 470 pf around or not. therefore, I wonder if it is OK to do the second mod and not the first for

now, if that is of benefit...
>
>
> 73 fred - kt5x
>
> The only "unperfect" thought I've ever had about my ATS3(no suffix) is that the audio was often "buzzy"
>
> That is actually a problem with the first audio stage and is usually most apparent with weak signals. Adding a 470 pf cap across the 330K resistor which connects to pin 3 of the LM4808 will solve the problem. That balances the cap which is across the feedback resistor. Another mod which might help is to remove the two caps which by pass the output of the product detector to ground (pins 4+5), then place one of the caps between pins 4+5 instead. This also helps improve the balance.
>
> These mods could benifit all interations the 3 series rigs and have already been done in the 4's.
>
> Steve
>

8470. RE: [AT_Sprint] ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 01:34:09 UTC
From: Dale Putnam
Topic: 8461 Message: 8470

With an intermittant at hand, in on a board that is small enough to fit in one's hand... the irresistible urge is to flex the board. And every time that occurs the increasing odds are that something is going to break. And much more often than not.. what breaks isn't the cause of the original intermittant. A very strong light... a bucket fullof patience, and a huge magnifier may be very helpful in sorting out what is broken. IF what is broken is visible. The wire has been known to break inside the covering of varnish, the caps have been known to break inside the insulation.. and the traces have been known to develop cracks in a manner that is invisible unless extreme magnification is used. Now.. this all sounds extremely daunting. So.. let's take a deep slow breath and discuss it. First. a reflow of the pins under the connetor of the board. I've had the hole through plating break, so the "hole through" connection, simply wasn't, and with only one side of the connector soldered, no connection from one side to the other existed. That can be found very quickly with an ohmmeter. and a TINY bit of pressure on the connector pins is all that is needed. ANY visible trace of rosin gives way to doubt as to clean, and if there is rosin left in sensitive places, that could be the issue.. again, easy to find, and cure. Soaking a filter in alcohol, will remove the most of it pretty easy. Then we get to the fun stuff, broken wire, see above, if you can't see it broken, then a GENTLE move of the toroid will reveal its secret, if there is one. NO need to pull, tug, or force it. The idea is to find the issue, not make more. Same with the caps, while watching the legs of the caps, GENTLY move the top of the cap a bit.. watch the leg for movement, if it doesn't move but the cap does.. consider swapping the cap.. if the insulation seal is broken and the movement seems to suggest that the cap is loose inside. Really a rare occurance, this one. OK.. caps, toroids, traces, connectors. Checked, visually, and reflowed if necessary. Replace the suspect parts, check it out.
NOW if there is still a problem. What causes the issue? Pressure applied where? And how much? Can you lessen the pressure applied, and localize the pressure into a toothpick sized area... that with the least amount of pressure "this" area is the most sensitive? Now you are down to finding the issue. No... flexing the board is not allowed.. we already discussed that. Unless you want to go do the first paragraph again, don't do it. Ok.. pressure here... on the "X". Does anything else cause the issue.. ? Heat? Use? Just being "on"? Let the filter tell you what it wants. Use all the conditions. Maybe it is just not happy with the 12+ volts? or is it just needing a long vacation? In that case, you may need to refer to para 1 again. Good luck, and if it continues, I have a solution... really do... send it to me, and let's see if a change of scenery affects a change. Sometimes, just being exposed to looking though a window at winds of 55MPH and temps in the 20s cause a rapid change of perspective.

--... ...--
Dale - WC7S in Wy

8471. Re: [AT_Sprint] Suggested pocket pc for running pocketdigi

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 02:20:11 UTC
From: Shoji Iwasaki
Topic: 8460 Message: 8471

There is a DroidPSK - PSK31 for Android.
http://www.youtube.com/watch?v=Ip-cl27Jr3g

I got ATS4B, but not yet assemble.
If I will complete to make a ATS4B, I will try this Android application.

73
Sho / JR1KDA / AG6GT

On Sat, 03 Mar 2012 18:09:07 -0000
"William" <fretjock@...> wrote:

> I admit I am a novice with regard to digital modes. I have had lots of fun on cw with my ats4 and would like to try it's digital capabilities.
> I'm looking for a reasonably priced pocket PC for use with the pocketdigi program. Wifi or 3G capability would be a plus to allow internet access. What have you guys been using? What specs should I look for?
>
> Bill/ wv1n
>
>
>
>

--
Shoji Iwasaki <ktm@...-net.ne.jp>

8472. Re: [AT_Sprint] Speaker

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 08:22:45 UTC
From: Peter Martin
Topic: 8449 Message: 8472

On Thu, Mar 1, 2012 at 1:23 AM, Chris Fowler <k4fh@...> wrote:

> I just found this:
>
>
> http://www.dealextreme.com/p/mini-rechargeable-3w-speaker-for-iphone-black-3-5mm-plug-118496
>
> Might work well with ATS4
>
> 73,
> Chris k4fh
>
> I use a similar type with built in lithium battery. Lasts about 5 hours
> between charges. you can see it pictured here
>
https://www.facebook.com/media/set/?set=a.2742563372205.2147540.1501105668&type=3&l=af51acbe8a
but I'll post a better picture later. It cost four of your finest British
pounds.
You can hear the speaker here although I was over driving it a bit on the
louder signals.
http://youtu.be/HKSE1PZa058
http://youtu.be/RHMsPPF60tE

Pete
G4ISJ

8473. RE: [AT_Sprint] ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 10:19:25 UTC
From: C WEAVING
Topic: 8461 Message: 8473

Dale---thank you for a very useful reminder of what we should be looking for when plagued with an intermittant problem.

We all have these problems from time to time. My experience is that at least 80% of problems are solder related---others may difer.

Can I add an additional thought. Concentrate looking where the problem is likely to be. In other words use your trouble shooting skills and tools to determine what is working / not working when the intermittant is present. A good signal source for a receiver and a scope to trace the signal path of a transmitter are indespensible. Box the problem and go from there.

I misplace things on a regular basis about the house. My XYL constantly reminds me that it is a total waste of time searching where it could not possibly be. Annoyingly, she reguarly joins the search, and finds the item in a room or a drawer that I had previosly seacrhed.

These thoughts or skills are directly transferable to troubleshooting.

8474. Re: ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 15:48:01 UTC
From: cloud runner
Topic: 8461 Message: 8474

Your wife does this, too???

;-)

fred

I misplace things on a regular basis about the house. My XYL constantly reminds me that it is a total waste of time searching where it could not possibly be. Annoyingly, she reguarly joins the search, and finds the item in a room or a drawer that I had previosly seacrhed.

8475. RE: [AT_Sprint] Re: ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 17:35:51 UTC
From: Dale Putnam
Topic: 8461 Message: 8475

Thought that was taught in Wife 101.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: just.one.hill@...
Date: Sun, 4 Mar 2012 08:48:01 -0700
Subject: [AT_Sprint] Re: ATS3 Band Module Connector Problem

Your wife does this, too???

;-)

fred

I misplace things on a regular basis about the house. My XYL constantly reminds me that it is a total waste of time searching where it could not possibly be. Annoyingly, she reguarly joins the search, and finds the item in a room or a drawer that I had previosly seacrhed.

8476. Re: ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 19:02:13 UTC
From: Mike
Topic: 8461 Message: 8476

Re: >I misplace things on a regular basis about the house. My XYL constantly reminds me that it is a total waste of time searching where it could not possibly be. Annoyingly, she reguarly joins the search, and finds the item in a room or a drawer that I had previosly seacrhed.>

My wife calls this syndrome "male refrigerator blindness" :-)

Re Troubleshooting: Any suggestion on techniques applicable when your tools consist of a $5 DMM from Harbor Freight and 2 pairs of supermarket reading glasses worn one on top of the other?

73,

Mike - ke5akl

--- In AT_Sprint@yahoogroups.com, C WEAVING <cweaving@...> wrote:
>
> Dale---thank you for a very useful reminder of what we should be looking for when plagued with an intermittant problem.
>
> We all have these problems from time to time. My experience is that at least 80% of problems are solder related---others may difer.
>
> Can I add an additional thought. Concentrate looking where the problem is likely to be. In other words use your trouble shooting skills and tools to determine what is working / not working when the intermittant is present. A good signal source for a receiver and a scope to trace the signal path of a transmitter are indespensible. Box the problem and go from there.
>
> I misplace things on a regular basis about the house. My XYL constantly reminds me that it is a total waste of time searching where it could not possibly be. Annoyingly, she reguarly joins the search, and finds the item in a room or a drawer that I had previosly seacrhed.
>
> These thoughts or skills are directly transferable to troubleshooting.
>

8477. Suggestion for "sales plan" for new MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 19:47:11 UTC
From: Hank Greeb
Topic: 8426 Message: 8477

Someone, not so long ago, had a rig (or several rigs of the same kind), and instead of selling to the very first person(s) who sent in for it, the seller held the "sale" open for a day or two (or more - I didn't keep track).

When the "sale" was closed, this person selected the winner(s) at random. That way the "first person" reading the "sale" message had a equal chance of "winning" the sale as a person who might be working for a living at the time and didn't read the "for sale" message until arriving home several hours later.

I don't know how this would work in practice, or if KD1JV would even entertain such a "raffle" but if the demand is what it appears to be for the Mountain Top Radio, the number of people wanting the kit might be considerably higher than the number of kits made for the initial run. Note, generating a series of random numbers is quite easy using Microsoft Excel, Open Office, etc.

Just a SWAT (S)tupid W)ild A)...d T)hought) on a possible method of sale.

BTW - we should all applaud KD1JV often and loudly for his efforts at promoting QRP and field operating.

72/73 de n8xx Hg

8478. RE: [AT_Sprint] Re: ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 20:08:40 UTC
From: Dale Putnam
Topic: 8461 Message: 8478

Hi Mike, Wear one pair, and have another lite mag lamp within reach. OR.. Harbor Frieght has had a headband magnifier that works and can be worn over glasses too. Now, about the DMM.. that works fine, just calibrate it with careful measurements in your shack. Then, you may, may want to expand... a whole lot of stuff can be made, espeially from free parts. (Free for the pickin up,... as in after the garage sale, offer to haul away the old tv.)

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: ke5akl@...
Date: Sun, 4 Mar 2012 19:02:13 +0000
Subject: [AT_Sprint] Re: ATS3 Band Module Connector Problem

Re: >I misplace things on a regular basis about the house. My XYL constantly reminds me that it is a total waste of time searching where it could not possibly be. Annoyingly, she reguarly joins the search, and finds the item in a room or a drawer that I had previosly seacrhed.>

My wife calls this syndrome "male refrigerator blindness" :-)

Re Troubleshooting: Any suggestion on techniques applicable when your tools consist of a $5 DMM from Harbor Freight and 2 pairs of supermarket reading glasses worn one on top of the other?

73,

Mike - ke5akl

--- In AT_Sprint@yahoogroups.com, C WEAVING <cweaving@...> wrote:

>

> Dale---thank you for a very useful reminder of what we should be looking for when plagued with an intermittant problem.

>

> We all have these problems from time to time. My experience is that at least 80% of problems are solder related---others may difer.

>

> Can I add an additional thought. Concentrate looking where the problem is likely to be. In other words use your trouble shooting skills and tools to determine what is working / not working when the intermittant is present. A good signal source for a receiver and a scope to trace the signal path of a transmitter are indespensible. Box the problem and go from there.

>

> I misplace things on a regular basis about the house. My XYL constantly reminds me that it is a total waste of time searching where it could not possibly be. Annoyingly, she reguarly joins the search, and finds the item in a room or a drawer that I had previosly seacrhed.

>

> These thoughts or skills are directly transferable to troubleshooting.

>

8479. Re: [AT_Sprint] Re: ATS3 Band Module Connector Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 21:06:33 UTC
From: Stephen Wandling
Topic: 8461 Message: 8479

I've not tried this yet, but for taking a close look at a circuit board, someone spoke about taking a close-up photo with their digital camera, loading it into their computer and blowing it up. I suspect that this will only work with a pretty good digital camera.

72 Stephen VE7NSD

On 04/03/2012 11:02 AM, Mike wrote:
> Re Troubleshooting: Any suggestion on techniques applicable when your tools consist of a $5 DMM from Harbor Freight and 2 pairs of supermarket reading glasses worn one on top of the other?
>

8480. Re: [AT_Sprint] Suggestion for "sales plan" for new MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 22:48:10 UTC
From: Steven Weber
Topic: 8426 Message: 8480

> When the "sale" was closed, this person selected the winner(s) at
> random.

Well, the thought of a raffle did cross my mind. Hard to say if we'll really need it or not. So far, only members of this group know about the rig, though there are over a 1000 members. Of course, no way of knowing how many keep up with the group on a frequent basies.

I was going to wait a bit, but this is what I've been thinking. Break it down into groups.

I'll put aside a few to take to Dayton for those who want to wait until then. That might be a dozen or so at the most.

The second group will be those who intend to use the rig for what it was designed for - SOTA or backpacking trips. This of course will have to be on the honor system and no telling how big a group this is.

The third group will be every one else, limit one per person. If there are any left over after that, a second one can be ordered.

Sound fair enough?

Steve KD1JV

8481. Re: Suggestion for "sales plan" for new MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 23:05:06 UTC
From: cloud runner
Topic: 8426 Message: 8481

Whatever you want is fair, Steve, since you are kitting them.

An additional thought (since you asked): one per customer at the initial offering, requests for additional kits wait listed for a first few days, then filled as available.

72, Fred - kt5x

>> When the "sale" was closed, this person selected the winner(s) at
>> random.
>
> Well, the thought of a raffle did cross my mind. Hard to say if we'll
> really
> need it or not. So far, only members of this group know about the rig,
> though there are over a 1000 members. Of course, no way of knowing how
> many
> keep up with the group on a frequent basies.
>
> I was going to wait a bit, but this is what I've been thinking. Break it
> down into groups.
>
> I'll put aside a few to take to Dayton for those who want to wait until
> then. That might be a dozen or so at the most.
>
> The second group will be those who intend to use the rig for what it was
> designed for - SOTA or backpacking trips. This of course will have to be
> on
> the honor system and no telling how big a group this is.
>
> The third group will be every one else, limit one per person. If there are
> any left over after that, a second one can be ordered.
>
> Sound fair enough?
>
> Steve KD1JV
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

8482. Re: [AT_Sprint] Suggestion for "sales plan" for new MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 23:00:48 UTC
From: Gary
Topic: 8426 Message: 8482

Sound fair enough?

Steve KD1JV

Yes, It sounds very fair, and the 1(one) per person is a great idea.
Thanks Steve

Gary- W4GNS

8483. Re: [AT_Sprint] Suggestion for "sales plan" for new MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 23:32:28 UTC
From: Michael Harnage
Topic: 8426 Message: 8483

So how does one decide how big the groups are to be? What will make it fair? We're starting to sound like politicians. The truth is, there will be more demand than supply and the classic answer is to raise prices. Wait did I just say that? Ha ha. Glad it's Steve's decision and not mine.

-mike/w1mt

>_____
> From: Steven Weber <steve.kd1jv@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Sunday, March 4, 2012 5:48 PM
>Subject: Re: [AT_Sprint] Suggestion for "sales plan" for new MTR rig
>
>I was going to wait a bit, but this is what I've been thinking. Break it
>down into groups.
>
>

8484. Re: Suggestion for "sales plan" for new MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-04 23:49:45 UTC
From: William
Topic: 8426 Message: 8484

I think a more fair approach would be to have two groups, those who already have an ATS and those that don't. There always seems to be a few guys who just missed the boat getting one. So maybe 3-5 days for the ATS virgins then open it up to the rest of us. It would be on the honor system. Those who try to scam the system by getting their buddy to buy for they will suffer eternal pangs of guilt with every QSO.

Bill/wv1n

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> > When the "sale" was closed, this person selected the winner(s) at
> > random.
>
> Well, the thought of a raffle did cross my mind. Hard to say if we'll really
> need it or not. So far, only members of this group know about the rig,
> though there are over a 1000 members. Of course, no way of knowing how many
> keep up with the group on a frequent basies.
>
> I was going to wait a bit, but this is what I've been thinking. Break it
> down into groups.
>
> I'll put aside a few to take to Dayton for those who want to wait until
> then. That might be a dozen or so at the most.
>
> The second group will be those who intend to use the rig for what it was
> designed for - SOTA or backpacking trips. This of course will have to be on
> the honor system and no telling how big a group this is.
>
> The third group will be every one else, limit one per person. If there are
> any left over after that, a second one can be ordered.
>
> Sound fair enough?
>
> Steve KD1JV
>

8485. Re: [AT_Sprint] Suggestion for "sales plan" for new MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-05 16:32:35 UTC
From: Ron Eike
Topic: 8426 Message: 8485

By Dayton I hope you mean FDIM! Would you lump IOTA with SOTA and backpacking?

Ron - KA3PSO

On 03/04/2012 05:48 PM, Steven Weber wrote:
>> When the "sale" was closed, this person selected the winner(s) at
>> random.
> Well, the thought of a raffle did cross my mind. Hard to say if we'll really
> need it or not. So far, only members of this group know about the rig,
> though there are over a 1000 members. Of course, no way of knowing how many
> keep up with the group on a frequent basies.
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> I was going to wait a bit, but this is what I've been thinking. Break it
> down into groups.
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> then. That might be a dozen or so at the most.
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> any left over after that, a second one can be ordered.
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> Sound fair enough?
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> Steve KD1JV
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> Yahoo! Groups Links
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8486. MTR sales gimmick -- really needed?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-05 17:13:40 UTC
From: shadle
Topic: 8486 Message: 8486

Steve's the boss, but I'm not really convinced that he needs a sales gimmick (i.e., first crack goes to those who don't have a KD1JV rig; split the group into those who will do mountain-topping with the new rig; etc.).

Check out the message from this group, nearly 4 hours after the sales were opened for the latest batch of ATS-4 rigs (http://groups.yahoo.com/group/AT_Sprint/message/5387):

"Wow, that didn't take long! At least half of the 100 are spoken for already. Thanks for all the orders."

Steve has always been transparent with when the rigs will go on sale, so folks should not feel like they're at a disadvantage when it comes to buying these (unless you're going to be away from a computer for a few hours during the sales window). If 1/2 of the rigs are gone in 4 hours, then that is not that great of a demand. We're talking about hours here, not minutes. Plenty of time for folks to make their orders.

Just my $.02.
-john W4PAH
Madison, WI

8487. Re: [AT_Sprint] MTR sales gimmick -- really needed?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-05 18:15:32 UTC
From: Hank Greeb
Topic: 8486 Message: 8487

John:

Good question(s). You hit the head right on the nail.

But, I know from reading this reflector, that there are many who wish they had bought at AT-Sprint 3, 3a, 3b, 3b2, 4, etc., a few hours or daze after the last one sold.

Yup, Steve has the only vote which counts.

72/73 de n8xx Hg

On 3/5/2012 12:13 PM, shadle wrote:
> Steve's the boss, but I'm not really convinced that he needs a sales gimmick (i.e., first crack goes to those who don't have a KD1JV rig; split the group into those who will do mountain-topping with the new rig; etc.).
>
> Check out the message from this group, nearly 4 hours after the sales were opened for the latest batch of ATS-4 rigs (http://groups.yahoo.com/group/AT_Sprint/message/5387):
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> "Wow, that didn't take long! At least half of the 100 are spoken for already. Thanks for all the orders."
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> Steve has always been transparent with when the rigs will go on sale, so folks should not feel like they're at a disadvantage when it comes to buying these (unless you're going to be away from a computer for a few hours during the sales window). If 1/2 of the rigs are gone in 4 hours, then that is not that great of a demand. We're talking about hours here, not minutes. Plenty of time for folks to make their orders.
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> Just my $.02.
> -john W4PAH
> Madison, WI

8488. Re: [AT_Sprint] MTR sales

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-05 18:35:40 UTC
From: WA0ITP
Topic: 8488 Message: 8488

Speaking from experience, lists are a real thorn in the side of a seller. It is absolutely impossible to accommodate each contingency and/or buyer.

Perhaps timing the announcement correspond with the time of day when most hams are home might might add an element of "fairness". But that is as far as anyone ought to go in asking for special treatment, IMHO. I'd expect that those who want the rig will be close to their keyboards and amongst the first to place an order.

Let's not place Steve in an uncomfortable position with this. Just keep your eyes open and order when possible. If you miss the first run, there will be a second, and maybe even a third, life goes on.

Back to the bench, Winter's too valuable to waste.
I love this radio stuff !
72, 73 Terry, WA?ITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

8489. Another Option?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-05 18:37:24 UTC
From: Steve
Topic: 8489 Message: 8489

Steve,
After an initial run, why not make circuit boards and perhaps pre-programmed CPUs available as a "semi-kit", leaving most of the parts to be scrounged (purchased, collected, sourced, etc.)?

Just another thought...

Steve
aa8af

8490. RE: [AT_Sprint] MTR sales

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-05 19:50:42 UTC
From: Dale Putnam
Topic: 8488 Message: 8490

Very well put Terry, Thank you!!

--... ...--
Dale - WC7S in Wy

Perhaps timing the announcement correspond with the time of day when

most hams are home might might add an element of "fairness". But that

is as far as anyone ought to go in asking for special treatment, IMHO.

I'd expect that those who want the rig will be close to their

keyboards and amongst the first to place an order.

Let's not place Steve in an uncomfortable position with this. Just

keep your eyes open and order when possible. If you miss the first

run, there will be a second, and maybe even a third, life goes on.

Back to the bench, Winter's too valuable to waste.

I love this radio stuff !

72, 73 Terry, WAØITP

wa0itp@...

www.wa0itp.com

www.4sqrp.com

www.qrpspots.com

8491. Re: [AT_Sprint] Another Option?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-05 21:20:28 UTC
From: Steven Weber
Topic: 8489 Message: 8491

> After an initial run, why not make circuit boards and perhaps
> pre-programmed CPUs available as a "semi-kit", leaving most of the parts
> to be scrounged (purchased, collected, sourced, etc.)?
>

My experiance with that is that it is a waste of natural resources, as few would actually spend the time or money to collect the parts. Enough of these sit unbuilt as it is, even when all the parts are in one place.

Steve KD1JV

8492. Re: [AT_Sprint] MTR sales

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-05 21:24:25 UTC
From: Steven Weber
Topic: 8488 Message: 8492

> Perhaps timing the announcement correspond with the time of day when
> most hams are home might might add an element of "fairness".

Problem is, we have a world wide customer base. I kinda feel bad about making some stay up or get up in the wee hours of the morning to order the 4B kit when I opened orders at 11:11:11 on 11:11:11. It might have been 11 AM here in NH, but not anywhere else! That aspect hadn't really occured to me before hand.

Steve KD1JV

8493. Re: MTR sales

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-07 05:58:31 UTC
From: Yannick
Topic: 8488 Message: 8493

Steve,

Whatever allocation mode you choose will be ok for me, because this is still a hobby for both of us. I also agree you have to keep small volumes and don't take pre-order or so. That said, you are right about 11am at your place definitely not being 11am at mine...

73,
Yan.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> > Perhaps timing the announcement correspond with the time of day when
> > most hams are home might might add an element of "fairness".
>
> Problem is, we have a world wide customer base. I kinda feel bad about
> making some stay up or get up in the wee hours of the morning to order the
> 4B kit when I opened orders at 11:11:11 on 11:11:11. It might have been 11
> AM here in NH, but not anywhere else! That aspect hadn't really occured to
> me before hand.
>
> Steve KD1JV
>

8494. ATS3a R11 Change

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-07 08:49:13 UTC
From: nr7f_mike
Topic: 8494 Message: 8494

Hello All:

I've started using my "old" ATS3a again, and for whatever reason the sidetone volume is seriously killing my ears now; not something I noticed before (different earbuds maybe).

Anyway, based on messages I see here, it sounds like a higher value resistor at R11 will take care of the issue. Two questions:

1. what resistor has worked well for others

2. do I understand correctly that I can use a resistor with leads there?

Thanks for your help.

Mike--NR7F

8495. RE: [AT_Sprint] ATS3a R11 Change

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-07 13:46:45 UTC
From: Dale Putnam
Topic: 8494 Message: 8495

Hi Mike, I don't have my AT3a cd handy, but from memory, it seems you're on track. Yes, you can use a leaded resistor there, very careful to place it, tho.I'll check the schematic and get back with you shortly.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: nr7fcall@frontier.com
Date: Wed, 7 Mar 2012 08:49:13 +0000
Subject: [AT_Sprint] ATS3a R11 Change

Hello All:

I've started using my "old" ATS3a again, and for whatever reason the sidetone volume is seriously killing my ears now; not something I noticed before (different earbuds maybe).

Anyway, based on messages I see here, it sounds like a higher value resistor at R11 will take care of the issue. Two questions:

1. what resistor has worked well for others

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Thanks for your help.

Mike--NR7F

8496. FOX: Thursday Night 40M Fox Hunt

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-07 13:58:22 UTC
From: Dale Putnam
Topic: 8496 Message: 8496

Here's a typical FOX announcement, and this one is for this coming Thursday evening. We're getting close to the end of the winter hunt season,Al and John are great FOXii ops, so grab the pelt, while you can.Good Luck to all,It's a fine day for a FOXHUNT, folks,

--... ...--
Dale - WC7S in Wyhttp://www.qrpfoxhunt.org

Hello all: I will be one of your QRP Foxes Thursday night, 0200-0330Z

(Friday UTC) somewhere between 7030 and 7050 kHz. Al, K2ZN, in NY will

be the other Fox. We will be running 5W, of course. I will be using a

coax fed half wave 40M dipole up about 50 feet and running north and

south, so it will favor east and west, but is a pretty good all over

antenna. I will start out split listening up and will indicate that by

sending "UP" at the end of the FOX call. When the pileup diminishes, I

will be listening on my own frequency and will stop sending "UP." I

will be giving "real" RST reports. Transceiver will be an FT1000MP

running at 5W as measured on the WM-2 QRP Watt Meter. My logging

computer is out so I will be logging on paper and that means I may be a

bit slower and will have to be very careful in transcription to a log

report that will be posted on the QRP Fox Hunt Reflector. I will be

able to use a memory keyer. Callers should be running 5W or less. I

hope you can all work both foxes Thursday, but know that closer in

stations may have trouble due to the skip usually found on 40M.

However, at about the same time in the ARS Spartan Sprint on 40M this

Monday night, I was able to work stations in AL, FL, and NC. Best

chance is at the beginning of the period, which is 0200 to 0330Z.

However, don't give up, as skip often shortens up toward the end of the

period. Exchange is RST, SPC, Name, and power and you can work only

the two Foxes.

73, John, K4BAI.

8497. RE: [AT_Sprint] ATS3a R11 Change

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-07 14:28:51 UTC
From: Dale Putnam
Topic: 8494 Message: 8497

If you want to lower the sidetone level, R12 can be adjusted. I have a tiny 10k pot in mine, because, that seems to be a need sometimes.. to adjust that up or down a bit, according to the earbuds I use, or the band conditions, and the surrounding noise of the operating position.

--... ...--
Dale - WC7S in Wy
To: at_sprint@yahoogroups.com
From: daleputnam@...
Date: Wed, 7 Mar 2012 06:46:45 -0700
Subject: RE: [AT_Sprint] ATS3a R11 Change

Hi Mike,
I don't have my AT3a cd handy, but from memory, it seems you're on track. Yes, you can use a leaded resistor there, very careful to place it, tho.
I'll check the schematic and get back with you shortly.

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: nr7fcall@...
Date: Wed, 7 Mar 2012 08:49:13 +0000
Subject: [AT_Sprint] ATS3a R11 Change

Hello All:

I've started using my "old" ATS3a again, and for whatever reason the sidetone volume is seriously killing my ears now; not something I noticed before (different earbuds maybe).

Anyway, based on messages I see here, it sounds like a higher value resistor at R11 will take care of the issue. Two questions:

1. what resistor has worked well for others

2. do I understand correctly that I can use a resistor with leads there?

Thanks for your help.

Mike--NR7F

8498. Re: ATS3a R11 Change

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-07 17:43:02 UTC
From: nr7f_mike
Topic: 8494 Message: 8498

It looks like R11 is the right one, although there was mention of R12. I thought R12 was relevant to the ATS3B (not A, which is the version I would like to fix).

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Hi Mike, I don't have my AT3a cd handy, but from memory, it seems you're on track. Yes, you can use a leaded resistor there, very careful to place it, tho.I'll check the schematic and get back with you shortly.
>
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> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: nr7fcall@...
> Date: Wed, 7 Mar 2012 08:49:13 +0000
> Subject: [AT_Sprint] ATS3a R11 Change
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> 1. what resistor has worked well for others
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> 2. do I understand correctly that I can use a resistor with leads there?
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> Thanks for your help.
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>
> Mike--NR7F
>

8499. RE: [AT_Sprint] Re: ATS3a R11 Change

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-07 18:11:11 UTC
From: Dale Putnam
Topic: 8494 Message: 8499

R12 in my 3 is on the same side of the board as is R11, and yes if you can adequately adjust R12 easily, then that would work too.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: nr7fcall@...
Date: Wed, 7 Mar 2012 17:43:02 +0000
Subject: [AT_Sprint] Re: ATS3a R11 Change

It looks like R11 is the right one, although there was mention of R12. I thought R12 was relevant to the ATS3B (not A, which is the version I would like to fix).

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

>

> Hi Mike, I don't have my AT3a cd handy, but from memory, it seems you're on track. Yes, you can use a leaded resistor there, very careful to place it, tho.I'll check the schematic and get back with you shortly.

>

> --... ...--

> Dale - WC7S in Wy

> To: AT_Sprint@yahoogroups.com

> From: nr7fcall@...

> Date: Wed, 7 Mar 2012 08:49:13 +0000

> Subject: [AT_Sprint] ATS3a R11 Change

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> 1. what resistor has worked well for others

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> Thanks for your help.

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> Mike--NR7F

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8500. FOXHUNT 4 to go

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-08 18:50:29 UTC
From: Dale Putnam
Topic: 8500 Message: 8500

Tonight, will mark the 4th hunt before the end of the regular season. Two of the FINE FOXii will be out and about, scampering through the 40 acre wood, hoping to hand out pelts to each of the hounds following. Are you planning to be one?KEZN, Al, in NY, and K4BAI, John, in GA, are the chosen pair. Please drop by, 7.040 +/- 10 khz, at 0100z to enjoy the last 40M hunt before daylight savings time starts this weekend, to share a fun time with fellow qrp hounds. Check it out on the webpage, http://www.qrpfoxhunt.orgbut basically you call the fox, the fox calls you, sends the exchange information, you send the fox your information, and so it goes.Yes, it is for 5 watt or less.. and you may even hear some one with an R10... that meaning 10mw.. measured output. Although tonight it may be a bit tuff, with the solar activity of late, it does promise to be an interesting hunt, with a full moon, and maybe even some northern lights making sighting of the FOXii even more exciting. Good luck to all, It is a Fine day for a FOXHUNT, you see. --... ..---

Dale - WC7S in Wy

8501. Hi temperature solder

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-08 22:33:02 UTC
From: Stephen Wandling
Topic: 8501 Message: 8501

I was recently gifted with a 45 Amp Converter/charger, that was inoperative. When I was pulling it apart, a large capacitor fell off of the board. When I had the board out so I could see the soldering, I could see that heat from a couple of adjacent 10W resistors had caused the soldering to fail on the cap. And, one lead on each resistor was also moving. So, I soldered these points, re-checked the unit and it was working! I've had it charging a battery for about 24 hours and it seems to be in the 'middle' charging mode. Hopefully, it will drop to the 'float' level sometime soon.

My question is this. Where does one find solder that is resistant to failing under heavy heating? I recall when pulling parts of off various boards, some of it required a bigger iron and more time to melt the solder. I want to install and use this converter/charger and I don't want it to fail for the same reasons.

When I say the 10W resistors are hot, I mean that I can not keep my finger on them for more than a second or two. They could probably blister my skin. And, the PCB beneath them is brown from heat. I guess it's possible that the hot resistors are a sign of another problem? I have no experience with these units, so I don't know.

Any tips will be appreciated.

72 Stephen VE7NSD

8502. Re: Hi temperature solder

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-09 00:06:11 UTC
From: Gil WA5YKK
Topic: 8501 Message: 8502

Stephen;

I've encountered the same type of converter/charger, and the whole board was built with very inferior parts for the purpose. There are probably several other parts that have been heat damaged, so a very close inspection of every cap, resistor, coil, et all, is in order with a high grade multimeter, "wear out the Ohms metering". With the one I had, I kept it going with "silver solder", and put larger wire in the whole circuit, even bypassed the PCB areas with large wire. Got a lot of hours out of it before the useful life was up, factory-made components simply deteriorated until they fell apart from heat abuse.

If you can find a schematic for the converter, follow it carefully, find out if anything went out of value or had some accident. I realized that 45 amps is a bit much for some items to handle, demands very heavy circuit parts and a lot of attention to cooling, thus anything that uses so much needs to have a lot of air exposure. Only some industrial quality devices are built with longevity in mind, so you have that to figure out.

There are a number of online outfits who sell the "silver solder", which often requires a propane bottle hand torch to put the correct heat on a part, "Just long enough to do the job, then cool it down immediately", I used to keep an ice cube handy!

Perhaps there are others who have had more recent experience, just wanted to put my two cent's worth in. Good luck, be careful of fingers and blisters!

73's

Gil WA5YKK (Living in salt air, it destroys anything of metal!)

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boards, some of it required a bigger iron and more time to melt the solder. I want to install and use this converter/charger and I don't want it to fail for the same reasons.

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Any tips will be appreciated.

72 Stephen VE7NSD

8503. Re: [AT_Sprint] Re: Hi temperature solder

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-09 01:44:29 UTC
From: Stephen Wandling
Topic: 8501 Message: 8503

Gil,

You've given me an idea. I used to take my titanium framed glasses to be repaired at an optometrist who had a very tiny torch for silver soldering. I'm in a more rural setting now, but on my next trip into the big smoke I will take the board over and see if he can work on it. I do brazing, but I'm thinking my smallest tip (#2) would smoke the board very quickly.

72 Stephen VE7NSD

On 08/03/2012 4:06 PM, Gil WA5YKK wrote:
> Stephen;
>
> I've encountered the same type of converter/charger, and the whole
> board was built with very inferior parts for the purpose. There are
> probably several other parts that have been heat damaged, so a very
> close inspection of every cap, resistor, coil, et all, is in order with
> a high grade multimeter, "wear out the Ohms metering". With the one I
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> 72 Stephen VE7NSD
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> Yahoo! Groups Links
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8504. Re: [AT_Sprint] Re: Hi temperature solder

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-09 04:47:14 UTC
From: Gil WA5YKK
Topic: 8501 Message: 8504

Steve;

Good luck with that idea, I'm thinking along the lines of a jeweler's torch for some of the hi-temp work myself, with the replacement of the low-lead, solders for high temp alloys for today's circuits. The idea of using an incredibly tiny torch "in a box, to put micro-parts on an ATS board" is one process that demands some thinking about keeping track of the part while avoiding being "cooked" in a close environment. That's no thanks to some politicians of the EPA who are horrified at lead solder, yet have no idea of what it takes for hobby circuits.

My left eye operation, to replace the cataract-damaged old natural lens with a plastic one, has been successful, now to get past the healing process, and rethink a LOT of work items. Closeup magnifying glasses are a natural for me, proper ventilation of the work area for soldering, and otherwise wearing eye protection "in case of flying micro-parts" is a necessity.

I, too, ended up with my last pair of glasses having titanium frames, they are far better than brass and stainless steel, even.

Ho, gad, but a brazing tip would make carbon of the circuit board on that converter very fast!

Good luck, 73's

Gil WA5YKK (heading for eye drops and some pills for the eye healing - horrible taste, got to swallow 'em fast!)

Gil,

You've given me an idea. I used to take my titanium framed glasses to be repaired at an optometrist who had a very tiny torch for silver soldering. I'm in a more rural setting now, but on my next trip into the big smoke I will take the board over and see if he can work on it. I do brazing, but I'm thinking my smallest tip (#2) would smoke the board very quickly.

72 Stephen VE7NSD

On 08/03/2012 4:06 PM, Gil WA5YKK wrote:
> Stephen;
>
> I've encountered the same type of converter/charger, and the whole
> board was built with very inferior parts for the purpose. There are
> probably several other parts that have been heat damaged, so a very
> close inspection of every cap, resistor, coil, et all, is in order with

> a high grade multimeter, "wear out the Ohms metering". With the one I
> had, I kept it going with "silver solder", and put larger wire in the
> whole circuit, even bypassed the PCB areas with large wire. Got a lot of
> hours out of it before the useful life was up, factory-made components
> simply deteriorated until they fell apart from heat abuse.
>
> If you can find a schematic for the converter, follow it carefully,
> find out if anything went out of value or had some accident. I realized
> that 45 amps is a bit much for some items to handle, demands very heavy
> circuit parts and a lot of attention to cooling, thus anything that uses
> so much needs to have a lot of air exposure. Only some industrial
> quality devices are built with longevity in mind, so you have that to
> figure out.
>
> There are a number of online outfits who sell the "silver solder",
> which often requires a propane bottle hand torch to put the correct heat
> on a part, "Just long enough to do the job, then cool it down
> immediately", I used to keep an ice cube handy!
>
> Perhaps there are others who have had more recent experience, just
> wanted to put my two cent's worth in. Good luck, be careful of fingers
> and blisters!
>
> 73's
>
> Gil WA5YKK (Living in salt air, it destroys anything of metal!)

8506. Re: [AT_Sprint] Ats 4b. 15, 17 meter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-09 14:42:51 UTC
From: Peter Martin
Topic: 8506 Message: 8506

On Mar 9, 2012 2:16 PM, <k1rik@...> wrote:
>
> Hi Mike, name here is Rick. just wondering if I could pick your brain a little on the 4b. First off did you end up going with 15 & 17 instead of 80? If you did..When you received your parts were there additional instructions? I'm new at this. not sure if it's me or am I missing something as far as where the additional parts go. I know the toroids are needed for the extra band but not sure about the rest. The lonely other rig I ever built was a elecraft kx1. No electronics back round just trying to have fun. The manual says you need to get the parts but doesn't tell you what to replace with them.
> I appreciate any help. Your the only person I saw in the group that seemed to be going this route.
>
> Hope I'm not bothering you.
>
I built mine with 15 and 17 and dropped the 80 option. All the details are already in the manual as it documents the coil windings and cap values for all bands. It's just aquestion of shuffling everything one place to the left except 15 which stays put. I did list out all the changes when I built mine but, as I'm away from home for a few days, can't actually post them until early next week. If you still need details I will do so when I get home.
Good choice by the way and a cracking rig!
Pete
G4ISJ
On Mar 9, 2012 2:16 PM, <k1rik@...> wrote:

> Hi Mike, name here is Rick. just wondering if I could pick your brain a
> little on the 4b. First off did you end up going with 15 & 17 instead of
> 80? If you did..When you received your parts were there additional
> instructions? I'm new at this. not sure if it's me or am I missing
> something as far as where the additional parts go. I know the toroids are
> needed for the extra band but not sure about the rest. The lonely other
> rig I ever built was a elecraft kx1. No electronics back round just trying
> to have fun. The manual says you need to get the parts but doesn't tell
> you what to replace with them.
> I appreciate any help. Your the only person I saw in the group that
> seemed to be going this route.
>
> Hope I'm not bothering you.
>
> Thanks K1RIK. Rick
>
>

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> Yahoo! Groups Links
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8507. Re: Ats 4b. 15, 17 meter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-09 15:20:21 UTC
From: k1rik@aol.com
Topic: 8506 Message: 8507

Thanks Pete,
I knew it was just me. I'm just afraid to screw it up..... Like I did this post . It was supos to be an email not a posted on here to show a dummy I am.. Hi Hi
--- In AT_Sprint@yahoogroups.com, Peter Martin <paradoxpete.pdm@...> wrote:
>

> >
> I built mine with 15 and 17 and dropped the 80 option. All the details are
> already in the manual as it documents the coil windings and cap values for
> all bands. It's just aquestion of shuffling everything one place to the
> left except 15 which stays put. I did list out all the changes when I built
> mine but, as I'm away from home for a few days, can't actually post them
> until early next week. If you still need details I will do so when I get
> home.
> Good choice by the way and a cracking rig!
> Pete
> G4ISJ
> >

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> > ------------------------------------
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> > Yahoo! Groups Links
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8508. Re: [AT_Sprint] Panel Mount BNC Jack for ATS-4b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-11 00:20:07 UTC
From: Steven Bornstein
Topic: 8508 Message: 8508

Sent from my iPad

On Mar 2, 2012, at 22:10, Rob Steenburgh <rasteenb@yahoo.com> wrote:

>
>
> I was having trouble with an intermittent antenna connection at the RCA jack. I tried three different adapters (2 commercial and one home brew) and re-checked the jack itselft. Still no luck.
>
> Since most of my QRP interconnects use BNC connectors, I decided to add one to the ATS-4b. Steve notes in the manual "It might be possible to replace the supplied RCA antenna jack with a BNC type by enlarging the hole, provided the new BNC jack has a short threaded section."
>
> I couldn't find any BNC jacks with a short enough threaded section until I stumbled across the Amphenol 31-4237 at Newark. It's pricey at $10, but I was willing to sacrifice a few other luxeries to give it a try. Turns out it worked great and provided just enough board clearance. No more intermittent connections.
>
> <DSC01233.JPG><DSC01235.JPG>
>
> During assembly, I also partially melted the power connector rendering it useless. I had been running the rig with a pigtail out the hole with a 2.1x 5.5 mm in-line jack. I ordered a replacement panel mount jack from Digikey (part no CP-011A-ND) made by CU Inc. I had to do a bit of work with the Dremel to get it to fit, but not too much.
>
> <DSC01240.JPG>
>
> The nice thing about both these connectors is I can remove the entire board from the case without having to pull out the soldering iron.
>
> Cheers,
> Rob
> KA8JBY
>
>
>
>

8509. ATS-3B Button Replacement

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-11 06:18:29 UTC
From: radio_kx0r
Topic: 8509 Message: 8509

A few weeks ago I mentioned here that the control buttons on my ATS-3B were intermittent and needed fixing. The UP button was so bad that I couldn't really tune the rig around any longer.

Several people offered suggestions, and it turned out that I'm not the only one to have the problem. Because the button switches are all cealed, there's no point in trying to use contact cleaner.

I decided to replace the button switches. The first thing that I learned is that these devices are called "tactile switches". A quick search of Mouser and Digikey showed that tactile switches are available in many styles and dimensions.

I pulled out my ATS-3B board and measured the dimensions of the original tactile switches with the reddish-brown buttons. I believe these are made by E-Switch, P/N TL1105EF100Q, and sold by Digikey as EG2496-ND. In quantity 10 they cost $.24 each.

I also found several other very similar tactile switches. After comparing specs, I ordered 10 each of 4 different part numbers. The specs don't tell how they feel. Today I tested and compared them; then I replaced all four of the original switches in my ATS-3B.

The parts I chose for the replacements are made by TE Connectivity Alcoswitch, part number FSM6JH. Digikey sells these as 450-1652-ND. These cost $.18 each in quantity 10! They have blue buttons. What I like about them is that they have a very positive tactile feel - a distinct click that you feel when they make contact.

The new E-switch parts I bought look exactly like the originals. They feel a bit better than the old ones. The original buttons tilt around and have a sloppy action. While it's a light action, for me the FSM6JH wins, even though it takes a bit more pressure.

Another good similar part is TE Connectivity Alcoswitch FSM10JH, Digikey 450-1647-ND. These cost $.18 each in quantity 10. These have a white button that's a tad higher than the FSM6JH. They feel almost the same, with a good tactile feel.

Replacing the switches is straightforward. Use desoldering braid to remove the solder, and gently work the old switches out, using a little heat on any pins that aren't completely free. Be careful of the SMT parts close by on the board. The new switches have kinked leads that will hold them in a new board prior to soldering. I found it helpful to straighten the leads - then they're a perfect fit in the board. Make sure they're fully inserted before soldering.

With the new FSM6JH switches, my ATS-3B feels better and is much more pleasant to use. Now I can actually tell whether the radio is tuning or not! There's none of this nonsense about pushing the buttons sideways - these blue buttons work like buttons should!

I recommend this mod, even if your original buttons still work. It's cheap, and the radio is nicer to use.

Only time will tell if these tactile switches will last longer than the original ones.

PS - if you order the switches from Digikey, you can get some more mosfet finals just in case - the BS170G made by ON SEMI is Digikey BS179GOS-ND - these cost $.2564 each in quantity 25. Remember that the pinouts are reversed from the 2N7000 originally used in the ATS-3 rigs. I posted info on replacement here earlier, and there are pictures in the Photos section under KX0R - the BS170's with the little heatsink have worked out really well.

George Carey Fuller
KX0R

8510. Re: [AT_Sprint] ATS-3B Button Replacement

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-11 12:24:59 UTC
From: Michael Harnage
Topic: 8509 Message: 8510

Also, look at the expected click life. Some of the tactile switch life expectancies are low and others are quite high. I choose the high life expectancy ones. Just another thought in the equation.

-mike.w1mt

8511. Re: ATS-3B Button Replacement

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-11 17:16:51 UTC
From: radio_kx0r
Topic: 8509 Message: 8511

Mike,

I looked at the expected life. The original E-switch tactile switches claim 100,000 minimum cycles. I have used my ATS-3B many hours, but somehow I don't think I've pushed the UP button more than 100,000 times.

The TE Connectivity Alcoswitch FSM6JH switches also are rated for 100,000 minimum cycles. Only time will tell.

When I did my search I saw some tactile switches with much larger expected minimum cycles - but they didn't have the right kinds of buttons, dimensions, etc.

Wonder if you found that perfect switch...?

Carey
KX0R
--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:
>
>
>
>
>
> Also, look at the expected click life. Some of the tactile switch life expectancies are low and others are quite high. I choose the high life expectancy ones. Just another thought in the equation.
>
> -mike.w1mt
>

8512. Re: [AT_Sprint] ATS-3B Button Replacement

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-12 02:56:07 UTC
From: Milton A Riutort
Topic: 8509 Message: 8512

I am very please with this info, but want you to know another possible way to operate the ATS radios in a more comfortable manner. I found a very attractive 3 way jog switch that can be use to move up and down the ATS4 operating frequency and activate the functions menu. It is the Navigational Switch from Sparkfun.com.

I decide to try it and this is how it looks and function after the installation. Take a look here:

http://www.youtube.com/watch?v=U4euYhWmKQM&feature=youtube_gdata_player

I still use the original buttons, but now I found another way.

Best 73,
Milton

On Mar 11, 2012, at 2:18 AM, "radio_kx0r" <careyfuller@...> wrote:

> A few weeks ago I mentioned here that the control buttons on my ATS-3B were intermittent and needed fixing. The UP button was so bad that I couldn't really tune the rig around any longer.
>
> Several people offered suggestions, and it turned out that I'm not the only one to have the problem. Because the button switches are all cealed, there's no point in trying to use contact cleaner.
>
> I decided to replace the button switches. The first thing that I learned is that these devices are called "tactile switches". A quick search of Mouser and Digikey showed that tactile switches are available in many styles and dimensions.
>
> I pulled out my ATS-3B board and measured the dimensions of the original tactile switches with the reddish-brown buttons. I believe these are made by E-Switch, P/N TL1105EF100Q, and sold by Digikey as EG2496-ND. In quantity 10 they cost $.24 each.
>
> I also found several other very similar tactile switches. After comparing specs, I ordered 10 each of 4 different part numbers. The specs don't tell how they feel. Today I tested and compared them; then I replaced all four of the original switches in my ATS-3B.
>
> The parts I chose for the replacements are made by TE Connectivity Alcoswitch, part number FSM6JH. Digikey sells these as 450-1652-ND. These cost $.18 each in quantity 10! They have blue buttons. What I like about them is that they have a very positive tactile feel - a distinct click that you feel when they make contact.
>
> The new E-switch parts I bought look exactly like the originals. They feel a bit better than the old ones. The original buttons tilt around and have a sloppy action. While it's a light action, for me the FSM6JH wins, even though it takes a bit more pressure.
>

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>
> With the new FSM6JH switches, my ATS-3B feels better and is much more pleasant to use. Now I can actually tell whether the radio is tuning or not! There's none of this nonsense about pushing the buttons sideways - these blue buttons work like buttons should!
>
> I recommend this mod, even if your original buttons still work. It's cheap, and the radio is nicer to use.
>
> Only time will tell if these tactile switches will last longer than the original ones.
>
> PS - if you order the switches from Digikey, you can get some more mosfet finals just in case - the BS170G made by ON SEMI is Digikey BS179GOS-ND - these cost $.2564 each in quantity 25. Remember that the pinouts are reversed from the 2N7000 originally used in the ATS-3 rigs. I posted info on replacement here earlier, and there are pictures in the Photos section under KX0R - the BS170's with the little heatsink have worked out really well.
>
> George Carey Fuller
> KX0R
>
>

8513. MTR - who wants to be first?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-12 03:41:55 UTC
From: Steven
Topic: 8513 Message: 8513

I should have the production boards in by the end of this week. I still need to get a few more parts before every thing is on hand in sufficent quanity, but I can get maybe 5 kits ready shortly after the boards arrive.

It occured to me that it seems there are always a couple of typos or part number conflicts to resolve in the manual after its release. No matter how hard I try, I can't find them all. I know where all the parts go, so I have a hard time following my own directions.

So, this time I'm looking for 5 builders who want to be first. Of course, the deal is you have to be willing and able to build the kit as soon as you get it and report back any errors or suggest improvments to the manual. -Oh and you'll have to buy the kit but I'll throw in postage :)

So, anyone want to volunteer? email me direct, please don't relpy to the group. steve.kd1jv@... (no doubt there will be more then 5, but we'll pick names out of a hat in that case..)

Steve KD1JV

8514. RE: [AT_Sprint] MTR - who wants to be first?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-12 09:48:55 UTC
From: Jake, ON4YZ
Topic: 8513 Message: 8514

Hello Steve,

I'm interested by an MTR 80/40m version. I asked a friend to build it for me. He's a very neat builder and completed recently a high level solder certification (IPC class 3). Rob NV5E is living in Arlington, Tx. So if you agree to sale us an exemplar for this run test I'll pay for it and you'll sent it to Rob : he would report directly to you.

I'm preparing to take the "Camino de Santiago" in a few weeks (that's a 1800 kms walk from my home) and I hope to have the chance to carry an MTR in my rugsack.

73 de Jake - ON4YZ

http://www.qrz.com/db/nv5e

http://www.qrz.com/db/on4yz

8515. Re: [AT_Sprint] MTR - who wants to be first?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-12 04:29:21 UTC
From: Katsumi Seto
Topic: 8513 Message: 8515

Steve

Let me raise my hand.

de JA7QIL/Katsu

From: Steven <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Monday, March 12, 2012 12:41 PM
Subject: [AT_Sprint] MTR - who wants to be first?

I should have the production boards in by the end of this week. I still need to get a few more parts before every thing is on hand in sufficent quanity, but I can get maybe 5 kits ready shortly after the boards arrive.

It occured to me that it seems there are always a couple of typos or part number conflicts to resolve in the manual after its release. No matter how hard I try, I can't find them all. I know where all the parts go, so I have a hard time following my own directions.

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So, anyone want to volunteer? email me direct, please don't relpy to the group. steve.kd1jv@... (no doubt there will be more then 5, but we'll pick names out of a hat in that case..)

Steve KD1JV

8516. Re: [AT_Sprint] Re: ATS-3B Button Replacement

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-12 04:54:08 UTC
From: Katsumi Seto
Topic: 8509 Message: 8516

We had a similar discussion in our local CW community in Japan. One of our members was actually a designer of tactile switch in a major electrical component manufacture. He stated that it is designed for most of low end tactile switches for 100,0000 minimum cycles just as Mike mentioned, but it is only when you push it straight, not title its stem. It's life cycle is much shorter if it is not pressed straight. The best way is to use the D-pad (Cross button) that most game machine use for controller.

Ja7qil/Katsu

From: radio_kx0r <careyfuller@...>
To: AT_Sprint@yahoogroups.com
Sent: Monday, March 12, 2012 2:16 AM
Subject: [AT_Sprint] Re: ATS-3B Button Replacement

Mike,

I looked at the expected life. The original E-switch tactile switches claim 100,000 minimum cycles. I have used my ATS-3B many hours, but somehow I don't think I've pushed the UP button more than 100,000 times.

The TE Connectivity Alcoswitch FSM6JH switches also are rated for 100,000 minimum cycles. Only time will tell.

When I did my search I saw some tactile switches with much larger expected minimum cycles - but they didn't have the right kinds of buttons, dimensions, etc.

Wonder if you found that perfect switch...?

Carey
KX0R
--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:
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>
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>
> Also, look at the expected click life. Some of the tactile switch life expectancies are low and others are quite high. I choose the high life expectancy ones. Just another thought in the equation.
>
> -mike.w1mt
>

8517. Re: Suggestion for "sales plan" for new MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-05 21:12:51 UTC
From: Tim Goodrich
Topic: 8426 Message: 8517

One way to verify people who fit within the SOTA group (group #2) would be to just check the SOTA website and see if they've activated any peaks before. It would be harder to verify those who backpack but don't do SOTA.

Tim

K6TW

8518. Re: Suggestion for "sales plan" for new MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-12 13:39:30 UTC
From: Paul Mateer
Topic: 8426 Message: 8518

what if one doesn't do SOTA (like us flatlanders here in IL) That's discrimination ;o) I like the "James Bond" factor of small radios... HI HI

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8519. MTR Beta builders

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-12 16:26:04 UTC
From: Steven
Topic: 8519 Message: 8519

Or should it be Alfa Builders?

Thanks for all the volunteers! Got pleanty now to choose from. Many were DX stations, but I think I'll have to limit it to US hams, if for no other reason then the unperdictable amount of time it can take to get through customs. Some times its a few days, some times a few months!

I'll get back to those I pick in a day or two so you can start cleaning off the bench.

TNX Steve KD1JV

8520. ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-13 20:11:39 UTC
From: ozman926
Topic: 8520 Message: 8520

Any idea when these kits will be available again? What is the cost for one when they are available? Thanks, Larry kf4fnm

8521. ATS3B Received Signal Issue/Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-13 21:46:28 UTC
From: nr7f_mike
Topic: 8521 Message: 8521

Hello All:

After much too long a hiatus, I am finishing up the band modules on my ATS3B. The rig seems sensitive enough, and power output is right where it should be. However, the received signal does not sound crisp and clear. The signal sounds a bit muffled. This is true for both 40M and 20M. I have scrutinized the board, and I do not find anything that looks wrong. Has anyone else run into this issue or have an idea about the likely area of a problem?

Thanks.

Mike--NR7F

8522. Rotary Encoders are ready for shipping

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-13 23:47:26 UTC
From: Petr
Topic: 8522 Message: 8522

Hi,

this message arrived tonite from Miroslav,

Hello,
I would like to inform you that the kits of rotary encoders for ATS are ready. The price remains the same 25 USD for one kit. The shipping cost is 5 USD for one kit, 6 USD for two kits and 7 USD for three wordwide. You can send the payment to my Paypal account diy4funatgmaildotcom.

Please put the version of your ATS into the payment note, because I have two different firmware for ATS-3 and ATS-4. If you want to send the kit to different address than you have in your Paypal account, please let me know either in payment note nor in email.

Thank you.
Best regards
Miroslav

So probably last batch of these kits is available now for ATS radios.

73 - Petr, OK1RP

8523. Re: [AT_Sprint] ATS3B Received Signal Issue/Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-14 01:26:24 UTC
From: Steven Weber
Topic: 8521 Message: 8523

Do you have the BFO trimmer adjusted? Check connections in the audio path
for missing or bad ones, try different head phones.
Steve KD1JV

> After much too long a hiatus, I am finishing up the band modules on my
> ATS3B. The rig seems sensitive enough, and power output is right where it
> should be. However, the received signal does not sound crisp and clear.
> The signal sounds a bit muffled. This is true for both 40M and 20M. I have
> scrutinized the board, and I do not find anything that looks wrong. Has
> anyone else run into this issue or have an idea about the likely area of a
> problem?
>
> Thanks.
>
> Mike--NR7F
>

8524. Re: ATS3B Received Signal Issue/Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-14 14:58:03 UTC
From: nr7f_mike
Topic: 8521 Message: 8524

Thanks for the comments, Steve.

Yes, I did adjust the BFO trimmer, although I'll go back and double check my adjustment. I do not have a scope, so per the directions, I did that adjustment by ear. Maybe a scope would be a way to double check that adjustment. I could probably get access to one, as well as someone who is competent with it (I've never used one).

I know the ear buds matter, but I've compared my 3A and this 3B, so I know something is different with the 3B in terms of the audio.

Otherwise, I'll do another check of the audio path.

Mike--NR7F

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Do you have the BFO trimmer adjusted? Check connections in the audio path
> for missing or bad ones, try different head phones.
> Steve KD1JV
>
>
> > After much too long a hiatus, I am finishing up the band modules on my
> > ATS3B. The rig seems sensitive enough, and power output is right where it
> > should be. However, the received signal does not sound crisp and clear.
> > The signal sounds a bit muffled. This is true for both 40M and 20M. I have
> > scrutinized the board, and I do not find anything that looks wrong. Has
> > anyone else run into this issue or have an idea about the likely area of a
> > problem?
> >
> > Thanks.
> >
> > Mike--NR7F
> >
>

8525. FOX Results thru Hunt 34

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-15 13:15:26 UTC
From: Dale Putnam
Topic: 8525 Message: 8525

Results through Hunt 34 are posted on the Web page: http://qrpfoxhunt.org They reflect the condtions on the bands, to say the least. There is drama and excitement as the finishing hunts come down to the wire, for one, the teams are getting a hard run on 80. Who's going to pull that one out of the hat? Then, how about the rights to Top Hound on 80 or 40? Or the TOP FOX on 80 or 40 ? Who is it going to be? Inquiring minds want to know. And if you don't want to miss the action, drop by tonight and see the action, first hand, on 40. With all the solar activity of late, it will be an exciting and invigorating time for all. And some of these Foxii.. are masters at the hunt.... I learn something new every time. Good luck to each, FOXii and Hounds, newcomers and experienced, y'all come, y'hear?

--... ...--
Dale - WC7S in Wy

8526. MTR alpha group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-15 19:48:46 UTC
From: joen2cx
Topic: 8526 Message: 8526

Hi Steve,

Say if you have not yet picked the alpha group for the MTR please add me as well. Then we'll see if I make the random selection cut.

Meanwhile I'll enjoy the unseasonable 70 weather here in south jersey enjoying my ATS3B out in the woods.

72/73,

Joe E., N2CX

8527. Beta builds

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-16 01:48:42 UTC
From: Steven
Topic: 8527 Message: 8527

Sorry I haven't gotten back to anyone about the beta builds yet. I kinda got side tracked this week.

First, I checked my parts and to my dismay, found I ordered the wrong switches -both the push button and the slide switches and if that wasn't bad enough, I forgot to order one part all together. So, those should be here tomorrow. I did get the boards and have one mostly built up.

Second, this is Maple sugering season up here in NH. A freind of mine has a Maple suger house and I help out there by keeping the wood flowing between the stack out side and the boiler inside. It's a full time job to keep up and earlier this week the operation started up. All this for a quart of freash syrup - but it's worth it! Mainly it's an excuse to get out of the house for a good part of the day.

So, as soon as I can get some more loose ends tied up and have a chance to bag some parts, I'll get back to those on my list.

Steve KD1JV

8528. Occam's Razor (An opportunity for a "Newbie")

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-16 17:31:09 UTC
From: charles
Topic: 8528 Message: 8528

I have been holding on to an unbuilt ats-3b.1 which I got at a hamfest a couple of years ago (i built one in 2009 that i still use regularly). The fact that the value of these limited run kits increases with time, I was going to put it on ebay. (i recently saw a built ats-3b.1 sell there for $295) ... but after reading all of the emails about the Mountain Topper rig kd1jv is getting ready to issue, I began to feel uncomfortable about being a "speculator" and taking advantage of scarcity. I know there are people out there who would really like to own one of these radios but they simply missed out at the time, or weren't aware at the time.

I am really interested in getting one of the Mountain Toppers when they come out so I'm willing to part with the unbuilt ats-3b.1 kit for basically cost ($200 to my paypal account). However, the prospective purchaser must certify that they do not already own one of the ATS rigs. I'm looking for a real "newbie."

(While I have no way of knowing whether the "certification" is true, I'm sure the "radio gods" will curse the cheater by rendering their build of the kit DOA (hi hi).)

In order to give everyone who wants this rig a fair shot at it, I will honor the first request received after 0001 utc on March 19, 2012 to "my call at arrl dot net." Good luck all and keep up the good work kd1jv!

73 de charles ai4ot

(It is vain to do with more, that which can be done with less.
-Occam's Razor)

8529. United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-16 17:59:31 UTC
From: charles
Topic: 8529 Message: 8529

the ats-3b.1 offer is only available for US and Canadian hams. Sorry. Nothing against others, it's just not my cup-of-tea to deal with international mail, etc ... thanks ... 73 de charles ai4ot

8530. RE: [AT_Sprint] Occam's Razor (An opportunity for a "Newbie")

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-16 19:23:32 UTC
From: Charles Moizeau
Topic: 8528 Message: 8530

Yes indeed!

My QRP namesake will soon be blessed by the radio gods for doing more with just one ATS-3b.1, not less with two.

72,

Charles, W2SH

To: AT_Sprint@yahoogroups.com
From: ai4ot@...
Date: Fri, 16 Mar 2012 17:31:09 +0000
Subject: [AT_Sprint] Occam's Razor (An opportunity for a "Newbie")

I have been holding on to an unbuilt ats-3b.1 which I got at a hamfest a couple of years ago (i built one in 2009 that i still use regularly). The fact that the value of these limited run kits increases with time, I was going to put it on ebay. (i recently saw a built ats-3b.1 sell there for $295) ... but after reading all of the emails about the Mountain Topper rig kd1jv is getting ready to issue, I began to feel uncomfortable about being a "speculator" and taking advantage of scarcity. I know there are people out there who would really like to own one of these radios but they simply missed out at the time, or weren't aware at the time.

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In order to give everyone who wants this rig a fair shot at it, I will honor the first request received after 0001 utc on March 19, 2012 to "my call at arrl dot net." Good luck all and keep up the good work kd1jv!

73 de charles ai4ot

(It is vain to do with more, that which can be done with less.

-Occam's Razor)

8531. ats-3b.1 builder available for "Newbie"

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-16 21:42:41 UTC
From: charles
Topic: 8531 Message: 8531

if the person who get the rig im selling needs a builder, wc7s has volunteered his services ... 72/73 de charles

8532. Re: [AT_Sprint] Occam's Razor (An opportunity for a "Newbie")

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-16 22:30:42 UTC
From: Howard Kraus
Topic: 8528 Message: 8532

Gosh, I would be tempted to make an offer. Alas, I own an original AT-Sprint. Darn the luck!

Good luck to the lucky person who scores this gem!

72

Howard Kraus, K2UD (who has been doing more with less much longer than I care to report!)

--- On Fri, 3/16/12, charles <ai4ot@...> wrote:

From: charles <ai4ot@...>
Subject: [AT_Sprint] Occam's Razor (An opportunity for a "Newbie")
To: AT_Sprint@yahoogroups.com
Date: Friday, March 16, 2012, 1:31 PM

I have been holding on to an unbuilt ats-3b.1 which I got at a hamfest a couple of years ago (i built one in 2009 that i still use regularly). The fact that the value of these limited run kits increases with time, I was going to put it on ebay. (i recently saw a built ats-3b.1 sell there for $295) ... but after reading all of the emails about the Mountain Topper rig kd1jv is getting ready to issue, I began to feel uncomfortable about being a "speculator" and taking advantage of scarcity. I know there are people out there who would really like to own one of these radios but they simply missed out at the time, or weren't aware at the time.

I am really interested in getting one of the Mountain Toppers when they come out so I'm willing to part with the unbuilt ats-3b.1 kit for basically cost ($200 to my paypal account). However, the prospective purchaser must certify that they do not already own one of the ATS rigs. I'm looking for a real "newbie."

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73 de charles ai4ot

(It is vain to do with more, that which can be done with less.

-Occam's Razor)

8533. NAQCC Sprint Wednesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-17 15:55:30 UTC
From: NAQCC
Topic: 2848 Message: 8533

NAQCC Sprint Wednesday night!

Our March sprint is this coming Wednesday evening local time (March 21, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Thursday March 22, 0030-0230Z in all cases. Note the Z time change because of going to Daylight Savings time on March 11.

I will refer you to the proper URL:

http://naqcc.info/sprint201203.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX. A Certificate for top score in the GAIN antenna category. Finally there is one more award - a certificate to the highest score from a first-time participant.

Prizes: A prize of a set of bug/paddle handles or a K1/K2 knob insert donated by master woodworker Gregg WB8LZG is awarded for each sprint to the winner of a random drawing among all participants. Previous winners are not eligible.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 5,940+ members in: All 50 States - 9 VE Provinces - 90 Countries. Just sign up on the NAQCC website (http://naqcc.info/) and you will receive a handsome certificate, with your membership number which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

8534. Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-16 18:47:37 UTC
From: maximilien971
Topic: 8529 Message: 8534

Sure its very very difficult to mail outside US!! ;-)

73's
F6GWE

--- In AT_Sprint@yahoogroups.com, "charles" <ai4ot@...> wrote:
>
> the ats-3b.1 offer is only available for US and Canadian hams. Sorry. Nothing against others, it's just not my cup-of-tea to deal with international mail, etc ... thanks ... 73 de charles ai4ot
>

8535. RE: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 00:12:51 UTC
From: Dale Putnam
Topic: 8529 Message: 8535

Yes, it is difficult, and costly. Especially when insurance is paid for and when the package is lost, the insurance claim is denied because it "was delivered, in country"...and it didn't get to the destination, nor returned. Not a good plan. Kinda leaves a bad taste.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: decastejac@...
Date: Fri, 16 Mar 2012 18:47:37 +0000
Subject: [AT_Sprint] Re: United States and Canada only ... sorry

Sure its very very difficult to mail outside US!! ;-)

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8536. White instead of orange for caps?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 02:03:11 UTC
From: ae5xae5x
Topic: 8536 Message: 8536

I', finishing up the caps on my ATS4b and don't have the specified orange packaging for C6, C38, C39 and C41. I do have 4 caps in a white (uncolored) package.

This is probably them, right?!

John AE5X

8537. Re: [AT_Sprint] White instead of orange for caps?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 03:34:09 UTC
From: Steven Weber
Topic: 8536 Message: 8537

I hope so. I don't know how I could have missed not seeing that they weren't color coded when snipping them off the rope, but I guess it could have happened. If everything else worked out correctly, then the process of elimination leads to that conclusion. I was up late packaging some of these...
Steve

> I', finishing up the caps on my ATS4b and don't have the specified orange
> packaging for C6, C38, C39 and C41. I do have 4 caps in a white
> (uncolored) package.
>
> This is probably them, right?!
>

8538. Re: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 03:53:57 UTC
From: Stephen Wandling
Topic: 8529 Message: 8538

Whoa hoss! Where is all of this coming from? Canada, my current home.
is not the third world and I have successfully and easily received items
from all over the States and elsewhere. Insurance isn't an issue for
the sender anyway, so why are we mentioning it? I smell a bit of
chauvinism here.

72 Stephen VE7NSD

On 17/03/2012 5:12 PM, Dale Putnam wrote:
> Yes, it is difficult, and costly. Especially when insurance is paid for and when the
package is lost, the insurance claim is denied because it "was delivered, in country"...and
it didn't get to the destination, nor returned. Not a good plan. Kinda leaves a bad taste.
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: decastejac@...
> Date: Fri, 16 Mar 2012 18:47:37 +0000
> Subject: [AT_Sprint] Re: United States and Canada only ... sorry
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8539. Re: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 08:14:58 UTC
From: Dale Putnam
Topic: 8529 Message: 8539

Nothing intended toward North America... I read that as US AND Canada. Was intended to alert folks to checking on how much actual coverage and the safety is afforded to the prize being shipped.
Have a great day,
Dale - WC7S

-----Original Message-----
From: Stephen Wandling <swandling@...>
Date: Sun, 18 Mar 2012 03:53:57
To: <AT_Sprint@yahoogroups.com>
Cc: <daleputnam@...>
Subject: Re: [AT_Sprint] Re: United States and Canada only ... sorry

Whoa hoss! Where is all of this coming from? Canada, my current home.
is not the third world and I have successfully and easily received items
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> To: AT_Sprint@yahoogroups.com
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> Date: Fri, 16 Mar 2012 18:47:37 +0000
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Yahoo! Groups Links

8540. Re: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 08:22:34 UTC
From: mathias.krueger@sunrise.ch
Topic: 8529 Message: 8540

Hi,

and how Steve and Elecraft and others can send the Kits and others
easy without problems and high insurance to Europe? I often buye
things in the US. Most of time it is no problem, but sometimes the
fees are more expensive as the bought stuff... Buying via Ebay was
much easier some time ago...

Just a thought....
Regards
Mathias
HB9SOU

2012/3/18 Stephen Wandling <swandling@...>:
> Whoa hoss! Where is all of this coming from? Canada, my current home.
> is not the third world and I have successfully and easily received items
> from all over the States and elsewhere. Insurance isn't an issue for
> the sender anyway, so why are we mentioning it? I smell a bit of
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8541. RE: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 11:34:11 UTC
From: James Rodenkirch
Topic: 8529 Message: 8541

Well, I sent an ATS-3B to a ham in Canada and after the dust had settled I felt like I'd been run through the wringer!

The time that poor radio spent in "isolation" as the Canadian custsoms doofus types did their slow, interminable thang was un-freakin'-believable. The fella I sold it to knew all about the delay periods and all of that but...dang....I started sweating bullets when nearly a month had gone by and he STILL didn't have the radio!

I guess if one "cares" about knowing his/her shipment arrived "ok" and in a timely fashion, one might not even wanna ship sumpin' to our friendly neighbors to the North of us, even.....Jim R. K9JWV

> To: swandling@...; AT_Sprint@yahoogroups.com
> From: daleputnam@...
> Date: Sun, 18 Mar 2012 08:14:58 +0000
> Subject: Re: [AT_Sprint] Re: United States and Canada only ... sorry
>
> Nothing intended toward North America... I read that as US AND Canada. Was intended to alert folks to checking on how much actual coverage and the safety is afforded to the prize being shipped.
> Have a great day,
> Dale - WC7S
>
> -----Original Message-----
> From: Stephen Wandling <swandling@...>
> Date: Sun, 18 Mar 2012 03:53:57
> To: <AT_Sprint@yahoogroups.com>
> Cc: <daleputnam@...>
> Subject: Re: [AT_Sprint] Re: United States and Canada only ... sorry
>
> Whoa hoss! Where is all of this coming from? Canada, my current home.
> is not the third world and I have successfully and easily received items
> from all over the States and elsewhere. Insurance isn't an issue for
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> 72 Stephen VE7NSD
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8542. Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 11:32:57 UTC
From: maximilien971
Topic: 8529 Message: 8542

I dont want to enter in a contreversy but, I buy and sell all over the world since 10 years. The cost is not an argument because the buyer choose if its costly or not! In case its need an insurance I prefere use Fedex or UPS. Fortunatly almost all ham's do the same! Imagine if all ham stuff are "hand delivery" !!

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Yes, it is difficult, and costly. Especially when insurance is paid for and when the package is lost, the insurance claim is denied because it "was delivered, in country"...and it didn't get to the destination, nor returned. Not a good plan. Kinda leaves a bad taste.
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8543. RFTB Tonight!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 14:48:59 UTC
From: Larry Makoski
Topic: 4429 Message: 8543

Tonight is the March 2012 edition of the Run For The Bacon. That friendly lil' ol' QRP Sprint sponsored by your friends at the Flying Pigs QRP Amateur Radio Club International. Join us for a spell to have some fun and to say "Hi" to friends, old and new.

The time is the same as always:

East coast - 9:00 to 11:00 PM local time
Midwest - 8:00 to 10:00 PM local time
Rockies - 7:00 to 9:00 PM local time
West coast - 6:00 to 8:00 PM local time

The rules are at:

http://fpqrp.org/pigrun/

73 de Larry W2LJ
FP# 612
QRP ARCI# 4488

8544. Re: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 17:00:40 UTC
From: Stephen Wandling
Topic: 8529 Message: 8544

Dale,

My apologies to you and the list. I had just returned from day 5 of searching the bush for my friend who totalled his truck on a big alder and hasn't been seen since. I shouldn't ever write emails when I am exhausted and frustrated.

72 Stephen VE7NSD

On 18/03/2012 1:14 AM, Dale Putnam wrote:
> Nothing intended toward North America... I read that as US AND Canada. Was intended to alert folks to checking on how much actual coverage and the safety is afforded to the prize being shipped.
> Have a great day,
> Dale - WC7S
>
> -----Original Message-----
> From: Stephen Wandling<swandling@...>
> Date: Sun, 18 Mar 2012 03:53:57
> To:<AT_Sprint@yahoogroups.com>
> Cc:<daleputnam@...>
> Subject: Re: [AT_Sprint] Re: United States and Canada only ... sorry
>
> Whoa hoss! Where is all of this coming from? Canada, my current home.
> is not the third world and I have successfully and easily received items
> from all over the States and elsewhere. Insurance isn't an issue for
> the sender anyway, so why are we mentioning it? I smell a bit of
> chauvinism here.
>
> 72 Stephen VE7NSD
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> On 17/03/2012 5:12 PM, Dale Putnam wrote:
>
>> Yes, it is difficult, and costly. Especially when insurance is paid for and when the package is lost, the insurance claim is denied because it "was delivered, in country"...and it didn't get to the destination, nor returned. Not a good plan. Kinda leaves a bad taste.
>>
>> --... ...--
>> Dale - WC7S in Wy
>> To: AT_Sprint@yahoogroups.com
>> From: decastejac@...
>> Date: Fri, 16 Mar 2012 18:47:37 +0000
>> Subject: [AT_Sprint] Re: United States and Canada only ... sorry
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>> Sure its very very difficult to mail outside US!! ;-)
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>> --- In AT_Sprint@yahoogroups.com, "charles"<ai4ot@...> wrote:
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>>> the ats-3b.1 offer is only available for US and Canadian hams. Sorry. Nothing against others, it's just not my cup-of-tea to deal with international mail, etc ... thanks ... 73 de charles ai4ot
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8545. RE: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 17:05:43 UTC
From: Dale Putnam
Topic: 8529 Message: 8545

No problem, Stephan, none at all. Apology accepted, and thanks for the explanation.It is always a concern when we learn of folks missing.My prayers are with him, and you, until better news is heard.And it isn't like we all haven't written in haste, or at the wrong time.Shucks, don't worry about it. Hope your friend shows up safe, and sound.

--... ...--
Dale - WC7S in Wy
> To: daleputnam@...
> CC: AT_Sprint@yahoogroups.com
> From: swandling@...
> Date: Sun, 18 Mar 2012 10:00:40 -0700
> Subject: Re: [AT_Sprint] Re: United States and Canada only ... sorry
>
> Dale,
>
> My apologies to you and the list. I had just returned from day 5 of
> searching the bush for my friend who totalled his truck on a big alder
> and hasn't been seen since. I shouldn't ever write emails when I am
> exhausted and frustrated.
>
> 72 Stephen VE7NSD
>
> On 18/03/2012 1:14 AM, Dale Putnam wrote:
> > Nothing intended toward North America... I read that as US AND Canada. Was intended to alert folks to checking on how much actual coverage and the safety is afforded to the prize being shipped.
> > Have a great day,
> > Dale - WC7S
> >
> > -----Original Message-----
> > From: Stephen Wandling<swandling@...>
> > Date: Sun, 18 Mar 2012 03:53:57
> > To:<AT_Sprint@yahoogroups.com>
> > Cc:<daleputnam@...>
> > Subject: Re: [AT_Sprint] Re: United States and Canada only ... sorry
> >
> > Whoa hoss! Where is all of this coming from? Canada, my current home.
> > is not the third world and I have successfully and easily received items
> > from all over the States and elsewhere. Insurance isn't an issue for
> > the sender anyway, so why are we mentioning it? I smell a bit of
> > chauvinism here.
> >
> > 72 Stephen VE7NSD
> >
> > On 17/03/2012 5:12 PM, Dale Putnam wrote:

> >
> >> Yes, it is difficult, and costly. Especially when insurance is paid for and when the package is lost, the insurance claim is denied because it "was delivered, in country"...and it didn't get to the destination, nor returned. Not a good plan. Kinda leaves a bad taste.
> >>
> >> --... ...--
> >> Dale - WC7S in Wy
> >> To: AT_Sprint@yahoogroups.com
> >> From: decastejac@...
> >> Date: Fri, 16 Mar 2012 18:47:37 +0000
> >> Subject: [AT_Sprint] Re: United States and Canada only ... sorry
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> >> Sure its very very difficult to mail outside US!! ;-)
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> >> --- In AT_Sprint@yahoogroups.com, "charles"<ai4ot@...> wrote:

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> >>> the ats-3b.1 offer is only available for US and Canadian hams. Sorry. Nothing against others, it's just not my cup-of-tea to deal with international mail, etc ... thanks ... 73 de charles ai4ot
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8546. Re: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 22:59:51 UTC
From: Yannick DEVOS (XV4Y)
Topic: 8529 Message: 8546

Well, better send it to the Third World then.
I ordered or have been sent many items (kits, parts, toys, books, wine, books...) and it never got stuck in the customs making the whole shipping longer than 3 weeks. It often arrive in less than 2 weeks, once it was 5 days!

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 18 mars 2012 à 18:34, James Rodenkirch a écrit :

>
>
> Well, I sent an ATS-3B to a ham in Canada and after the dust had settled I felt like I'd been run through the wringer!
>
> The time that poor radio spent in "isolation" as the Canadian custsoms doofus types did their slow, interminable thang was un-freakin'-believable. The fella I sold it to knew all about the delay periods and all of that but...dang....I started sweating bullets when nearly a month had gone by and he STILL didn't have the radio!
>
> I guess if one "cares" about knowing his/her shipment arrived "ok" and in a timely fashion, one might not even wanna ship sumpin' to our friendly neighbors to the North of us, even.....Jim R. K9JWV
>
>
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>
> > To: swandling@gmail.com; AT_Sprint@yahoogroups.com
> > From: daleputnam@...
> > Date: Sun, 18 Mar 2012 08:14:58 +0000
> > Subject: Re: [AT_Sprint] Re: United States and Canada only ... sorry
> >
> > Nothing intended toward North America... I read that as US AND Canada. Was intended to alert folks to checking on how much actual coverage and the safety is afforded to the prize being shipped.
> > Have a great day,
> > Dale - WC7S
> >
> > -----Original Message-----
> > From: Stephen Wandling <swandling@...>
> > Date: Sun, 18 Mar 2012 03:53:57
> > To: <AT_Sprint@yahoogroups.com>

> > Cc: <daleputnam@...>
> > Subject: Re: [AT_Sprint] Re: United States and Canada only ... sorry
> >
> > Whoa hoss! Where is all of this coming from? Canada, my current home.
> > is not the third world and I have successfully and easily receiv ed items
> > from all over the States and elsewhere. Insurance isn't an issue for
> > the sender anyway, so why are we mentioning it? I smell a bit of
> > chauvinism here.
> >
> > 72 Stephen VE7NSD
> >
> > On 17/03/2012 5:12 PM, Dale Putnam wrote:
> > > Yes, it is difficult, and costly. Especially when insurance is paid for and when the package is lost, the insurance claim is denied because it "was delivered, in country"...and it didn't get to the destination, nor returned. Not a good plan. Kinda leaves a bad taste.
> > >
> > > --... ...--
> > > Dale - WC7S in Wy
> > > To: AT_Sprint@yahoogroups.com
> > > From: decastejac@...
> > > Date: Fri, 16 Mar 2012 18:47:37 +0000
> > > Subject: [AT_Sprint] Re: United States and Canada only ... sorry
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> > > Sure its very very difficult to mail outside US!! ;-)
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> > > --- In AT_Sprint@yahoogroups.com, "charles"<ai4ot@...> wrote:
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> > >>
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> > >> the ats-3b.1 offer is only available for US and Canadian hams. Sorry. Nothing
against others, it's just not my cup-of-tea to deal with international mail, etc ... thanks
... 73 de charles ai4ot
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8547. Re: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 23:03:53 UTC
From: Chris Fowler
Topic: 8529 Message: 8547

On 03/18/2012 06:59 PM, Yannick DEVOS (XV4Y) wrote:
>
>
> Well, better send it to the Third World then.
> I ordered or have been sent many items (kits, parts, toys, books,
> wine, books...) and it never got stuck in the customs making the whole
> shipping longer than 3 weeks. It often arrive in less than 2 weeks,
> once it was 5 days!
>

My experience with Canadian Customs has been the same as his if using
FedEx or UPS. I've never had issue with USPS. Shipping to CA with UPS
or FedEx is not fun. Don't do it unless you have to.

Chris

8548. Re: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 23:19:43 UTC
From: W2XJ
Topic: 8529 Message: 8548

I ship things to various countries without such problems. UPS or Fedex will handle all customs so long as the paperwork is properly filled out. As for Shipping fees and Insurance, that is the purchaser's responsibility anyway. Shipments to Canada usually are either next day or second day unless the paperwork is wrong. Anyone who sells only one general type of product can easily learn the customs code and include that in the paperwork. Do not use any countries postal service!

On 3/18/12 6:59 PM, Yannick DEVOS (XV4Y) wrote:
>
> Well, better send it to the Third World then.
>
> I ordered or have been sent many items (kits, parts, toys, books,
> wine, books...) and it never got stuck in the customs making the whole
> shipping longer than 3 weeks. It often arrive in less than 2 weeks,
> once it was 5 days!
>
> 73,
> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
>
> Le 18 mars 2012 ? 18:34, James Rodenkirch a ?crit :
>
>>
>>
>> Well, I sent an ATS-3B to a ham in Canada and after the dust had
>> settled I felt like I'd been run through the wringer!
>>
>> The time that poor radio spent in "isolation" as the Canadian
>> custsoms doofus types did their slow, interminable thang was
>> un-freakin'-believable. The fella I sold it to knew all about the
>> delay periods and all of that but...dang....I started sweating
>> bullets when nearly a month had gone by and he STILL didn't have the
>> radio!
>>
>> I guess if one "cares" about knowing his/her shipment arrived "ok"
>> and in a timely fashion, one might not even wanna ship sumpin' to our
>> friendly neighbors to the North of us, even.....Jim R. K9JWV
>>
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>>

>> > To:swandling@...
>> <mailto:swandling@...>;AT_Sprint@yahoogroups.com
>> <mailto:AT_Sprint@yahoogroups.com>
>> > From:daleputnam@... <mailto:daleputnam@...>
>> > Date: Sun, 18 Mar 2012 08:14:58 +0000
>> > Subject: Re: [AT_Sprint] Re: United States and Canada only ... sorry
>> >
>> > Nothing intended toward North America... I read that as US AND
>> Canada. Was intended to alert folks to checking on how much actual
>> coverage and the safety is afforded to the prize being shipped.
>> > Have a great day,
>> > Dale - WC7S
>> >
>> > -----Original Message-----
>> > From: Stephen Wandling <swandling@...
>> <mailto:swandling@...>>
>> > Date: Sun, 18 Mar 2012 03:53:57
>> > To: <AT_Sprint@yahoogroups.com <mailto:AT_Sprint@yahoogroups.com>>
>> > Cc: <daleputnam@... <mailto:daleputnam@...>>
>> > Subject: Re: [AT_Sprint] Re: United States and Canada only ... sorry
>> >
>> > Whoa hoss! Where is all of this coming from? Canada, my current home.
>> > is not the third world and I have successfully and easily receiv ed
>> items
>> > from all over the States and elsewhere. Insurance isn't an issue for
>> > the sender anyway, so why are we mentioning it? I smell a bit of
>> > chauvinism here.
>> >
>> > 72 Stephen VE7NSD
>> >
>> > On 17/03/2012 5:12 PM, Dale Putnam wrote:
>> > > Yes, it is difficult, and costly. Especially when insurance is
>> paid for and when the package is lost, the insurance claim is denied
>> because it "was delivered, in country"...and it didn't get to the
>> destination, nor returned. Not a good plan. Kinda leaves a bad taste.
>> > >
>> > > --... ...--
>> > > Dale - WC7S in Wy
>> > > To:AT_Sprint@yahoogroups.com <mailto:AT_Sprint@yahoogroups.com>
>> > > From:decastejac@... <mailto:decastejac@...>
>> > > Date: Fri, 16 Mar 2012 18:47:37 +0000
>> > > Subject: [AT_Sprint] Re: United States and Canada only ... sorry
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>> > > Sure its very very difficult to mail outside US!! ;-)
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>> > > --- InAT_Sprint@yahoogroups.com
>> <mailto:AT_Sprint@yahoogroups.com>, "charles"<ai4ot@...> wrote:
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>> > >> the ats-3b.1 offer is only available for US and Canadian hams.
>> Sorry. Nothing against others, it's just not my cup-of-tea to deal
>> with international mail, etc ... thanks ... 73 de charles ai4ot
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>> <mailto:AT_Sprint-fullfeatured@yahoogroups.com>
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8549. Who wants freash Maple Syrup?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-18 23:57:29 UTC
From: Steven
Topic: 8549 Message: 8549

Like I mensioned a few days ago, it's sugering season here in NH and I've been helping out over at a friend's suger shack a few miles up the road from me.

We now have Grade A "Dark Amber" available for $18 a quart or $32 a half gallon (shipped as two quarts). Postage is the killer - $10.95 for either a quart or half gallon (flat rate priority box). Once you've had REAL maple syrup, it's hard to go back to colored corn syrup!

I can take payment through my paypal account.

72, Steve KD1JV

8550. Re: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-19 00:12:00 UTC
From: Stephen Wandling
Topic: 8529 Message: 8550

Two things I've learned about US shipments into Canada is that if it's USPS and the value is greater than $100, then a broker has to be obtained and paid. This can add some time, though the fee is simply collected COD.

But FedEx and other courier services provide the border services, so no broker is needed.

But, if I want you to send me something and I want it insured, you will buy insurance from USPS won't you? And if they refuse to honour their insurance, that's a USPS issue, and it seems to me that has nothing to do with the Canadian border services or CanPost.

72 Stephen VE7NSD

On 18/03/2012 4:19 PM, W2XJ wrote:
> I ship things to various countries without such problems. UPS or Fedex
> will handle all customs so long as the paperwork is properly filled
> out. As for Shipping fees and Insurance, that is the purchaser's
> responsibility anyway. Shipments to Canada usually are either next day
> or second day unless the paperwork is wrong. Anyone who sells only one
> general type of product can easily learn the customs code and include
> that in the paperwork. Do not use any countries postal service!
>

8551. Re: [AT_Sprint] Re: United States and Canada only ... sorry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-19 00:20:06 UTC
From: W2XJ
Topic: 8529 Message: 8551

Fedex insures.

On 3/18/12 8:12 PM, Stephen Wandling wrote:
>
> Two things I've learned about US shipments into Canada is that if it's
> USPS and the value is greater than $100, then a broker has to be
> obtained and paid. This can add some time, though the fee is simply
> collected COD.
>
> But FedEx and other courier services provide the border services, so no
> broker is needed.
>
> But, if I want you to send me something and I want it insured, you will
> buy insurance from USPS won't you? And if they refuse to honour their
> insurance, that's a USPS issue, and it seems to me that has nothing to
> do with the Canadian border services or CanPost.
>
> 72 Stephen VE7NSD
>
> On 18/03/2012 4:19 PM, W2XJ wrote:
> > I ship things to various countries without such problems. UPS or Fedex
> > will handle all customs so long as the paperwork is properly filled
> > out. As for Shipping fees and Insurance, that is the purchaser's
> > responsibility anyway. Shipments to Canada usually are either next day
> > or second day unless the paperwork is wrong. Anyone who sells only one
> > general type of product can easily learn the customs code and include
> > that in the paperwork. Do not use any countries postal service!
> >
>
>

8552. ATS-3b.1 sold

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-19 00:40:29 UTC
From: charles
Topic: 8552 Message: 8552

to all: pending payment, the ats-3b.1 has sold. sorry to instigate such a hub-bub about international sales. a canadian was first to make his desire known. 73 de charles ai4ot

8553. (ATS-4b) Two discrepancies on Page 19

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-19 01:56:32 UTC
From: ae5xae5x
Topic: 8553 Message: 8553

Just noting here so as not to be confusing to others:

1. The pictorial shows R11 (100) but this part is not one of those mentioned in the "to install" list below the photo.

2. The photo shows "V1" - the list below photo refers to it as "V2".

John AE5X

8554. Re: [AT_Sprint] (ATS-4b) Two discrepancies on Page 19

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-19 04:28:17 UTC
From: cloud runner
Topic: 8553 Message: 8554

See errata:
http://www.loomcom.com/ats4b_errata.html

73 fred - kt5x

----- Original Message -----
From: ae5xae5x
To: AT_Sprint@yahoogroups.com
Sent: Sunday, March 18, 2012 7:56 PM
Subject: [AT_Sprint] (ATS-4b) Two discrepancies on Page 19

Just noting here so as not to be confusing to others:

1. The pictorial shows R11 (100) but this part is not one of those mentioned in the "to install" list below the photo.

2. The photo shows "V1" - the list below photo refers to it as "V2".

John AE5X

8555. Re: Who wants freash Maple Syrup?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-19 04:01:26 UTC
From: ke7ngo11
Topic: 8549 Message: 8555

I do!

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Like I mensioned a few days ago, it's sugering season here in NH and I've been helping out over at a friend's suger shack a few miles up the road from me.
>
> We now have Grade A "Dark Amber" available for $18 a quart or $32 a half gallon (shipped as two quarts). Postage is the killer - $10.95 for either a quart or half gallon (flat rate priority box). Once you've had REAL maple syrup, it's hard to go back to colored corn syrup!
>
> I can take payment through my paypal account.
>
> 72, Steve KD1JV
>

8556. Re: Who wants freash Maple Syrup?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-19 02:50:53 UTC
From: ke7ngo11
Topic: 8549 Message: 8556

I want a 1/2 Gallon, will order in the morning. Clayton

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Like I mensioned a few days ago, it's sugering season here in NH and I've been helping out over at a friend's suger shack a few miles up the road from me.
>
> We now have Grade A "Dark Amber" available for $18 a quart or $32 a half gallon (shipped as two quarts). Postage is the killer - $10.95 for either a quart or half gallon (flat rate priority box). Once you've had REAL maple syrup, it's hard to go back to colored corn syrup!
>
> I can take payment through my paypal account.
>
> 72, Steve KD1JV
>

8557. FOX: 80 Meter Fox Hunt. 01:00 UTC 03/31/2012

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-20 01:25:22 UTC
From: Dale Putnam
Topic: 8557 Message: 8557

I'm looking forward with anticipation to the last hunt of this, the 80m season, with N9AW, Jerry, and KI0II, Ron being the Pursued Foxii.. and a fine pair of FOXii they both are too. It is also noteable that this will be the last FOX outing for Jerry as a member of the Fox Committee, we will miss him in that capacity, he has been very tireless, and helpful, always striving to improve the FOXHUNTS. My best wishes to him as he continues with his professional approach in future challanges and endevors. And Best of Luck to Ron and Jerry, fine ops both, for a good hunt, with the start being with greyline overhead in parts of the country, it will prove to be a challange to grab a pelt, and interesting to watch the propagation princess as we recover from the past solar penominons... (fonenetically, right?) 80 is predicted to be fair in day and good at night.. and with that, prognostication... who can tell? See you in the hunt, and Good Luck to all and to all a Good Pelt!

--... ..---
Dale - WC7S in Wy
http://www.qrpfoxhunt.org

8558. Question about regen receivers?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-20 13:43:03 UTC
From: Hank Greeb
Topic: 8553 Message: 8558

W7AQK mentioned he was interested in building a regen receiver from scratch. That brought up some activity in the usually dormant vacuum between my ears.

Back in 1949 or '50 I built a one tube regenerative receiver, using a 1T4 or something similar. I used 20,000 ohm "Trimm Featherweight" earphones from my daze at building crystal sets. They were the most sensitive phones I found in my father's junk box. I could receive all sorts of AM broadcast signals, all sorts of 160 and 75 metre AM signals (SSB was a rare curiousity in those daze), and CW signals (which, at the time, I couldn't decipher but were there in the 160 and 80 meter band)

This brought up a question: Most (all which I found) regen receivers using transistors use a high gain audio amp after the detector. Why do we need a LM-386 or similar audio amplifier after a transistorized regenerative detector? Are the current day 8 to 16 ohm headphones so "deaf" compared to those of ancient daze?

Any and all replies are welcome.

72/73 de n8xx Hg

8559. Re: [AT_Sprint] Question about regen receivers?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-20 14:18:24 UTC
From: Vojtěch Bubník
Topic: 8553 Message: 8559

Hank,

> This brought up a question: Most (all which I found) regen receivers
> using transistors use a high gain audio amp after the detector. Why do
> we need a LM-386 or similar audio amplifier after a transistorized
> regenerative detector? Are the current day 8 to 16 ohm headphones so
> "deaf" compared to those of ancient daze?

Some of the modern earphones, even the tiny ones, are very sensitive. They are likely equipped with rare earth permanent magnets. But these earphones are all of low impedance, therefore they will cause impedance mismatch when connected to high impedance circuit like crystal detector.

I was already thinking of making an impedance converter with audio output transformer for the low impedance phones. There are tiny audio transformers inside the old transistor radios, that could be repurposed.

73, Vojtech OK1IAK

8560. Itchy To Build Something!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-20 14:20:51 UTC
From: James Rodenkirch
Topic: 8560 Message: 8560

All this chatter about regenerative receivers got me to do some googlin'!

Here's a one-transistor version: http://www.techlib.com/electronics/regen.html

Here's a one tube version site: http://makearadio.com/others/regenrx.php

Looks like a TON more if you google "regenerative receiver" but then...y'all know that.

72, Jim R. K9JWV

8561. Re: Who wants freash Maple Syrup?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-20 16:28:09 UTC
From: zigmundrat
Topic: 8549 Message: 8561

I'm interested - but as you say, postage is a killer. How about local pickup?

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Like I mensioned a few days ago, it's sugering season here in NH and I've been helping out over at a friend's suger shack a few miles up the road from me.
>
> We now have Grade A "Dark Amber" available for $18 a quart or $32 a half gallon (shipped as two quarts). Postage is the killer - $10.95 for either a quart or half gallon (flat rate priority box). Once you've had REAL maple syrup, it's hard to go back to colored corn syrup!
>
> I can take payment through my paypal account.
>
> 72, Steve KD1JV
>

8562. Re: [AT_Sprint] Re: Who wants freash Maple Syrup?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-21 01:45:00 UTC
From: Steven Weber
Topic: 8549 Message: 8562

> I'm interested - but as you say, postage is a killer. How about local
> pickup?
>

That depends on how far away you are, at current gas prices, it costs me almost $3.00 to go to the post office and back! This weekend it open house at the suger house (state wide event) so if your in the area - email me direct for directions.

Steve

8563. Re: [AT_Sprint] Question about regen receivers?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-21 16:48:21 UTC
From: Cy Currier
Topic: 8553 Message: 8563

if you still have those earphones, they are worth their weight in GOLD!
i have seen instances where one xistor radios work quite well with crystal earphones.
to answer your question, yes. 8 ohm ear phones more nearly approximate a speaker than headphones.
they are quite deaf. Uncle Cy- K1TES

>_____
> From: Hank Greeb <n8xx@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Tuesday, March 20, 2012 8:43 AM
>Subject: [AT_Sprint] Question about regen receivers?
>
>
>
>
>
>W7AQK mentioned he was interested in building a regen receiver from scratch. That brought up some activity in the usually dormant vacuum between my ears.
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>Back in 1949 or '50 I built a one tube regenerative receiver, using a 1T4 or something similar. I used 20,000 ohm "Trimm Featherweight" earphones from my daze at building crystal sets. They were the most sensitive phones I found in my father's junk box. I could receive all sorts of AM broadcast signals, all sorts of 160 and 75 metre AM signals (SSB was a rare curiousity in those daze), and CW signals (which, at the time, I couldn't decipher but were there in the 160 and 80 meter band)
>
>This brought up a question: Most (all which I found) regen receivers using transistors use a high gain audio amp after the detector. Why do we need a LM-386 or similar audio amplifier after a transistorized regenerative detector? Are the current day 8 to 16 ohm headphones so "deaf" compared to those of ancient daze?
>
>Any and all replies are welcome.
>
>72/73 de n8xx Hg
>
>
>
>
>
>

8564. MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-21 21:27:33 UTC
From: Steven
Topic: 8564 Message: 8564

Man, I can't belive it. I have 150 useless boards to throw away!

To make a long story short, some how while fixing the mistakes on the first pass prototype board, a couple of new mistakes crept in, which I didn't notice 'cuz they shouldn't have.

Two of the mistakes could have been fixed with new assembly instructions, but the third one I just found which is keeping the DDS chip from working needs a new board. The first two problems were just missing connections, the third has connections going to two pins swapped, which is a lot harder to fix.

So, I guess I'll have to buy some new boards and hope I get it right this time.

72, Steve KD1JV

8565. RE: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-21 21:38:06 UTC
From: Charles Moizeau
Topic: 8564 Message: 8565

That's sad news, and most especially for you, Steve.

Would it have been a saving to have just a couple of boards made initially for your debugging, or would the set-up expense pretty much have eliminated the the 2 vs. 150-boards price difference?

72,

Charles, W2SH

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Wed, 21 Mar 2012 21:27:33 +0000
Subject: [AT_Sprint] MTR: another delay

Man, I can't belive it. I have 150 useless boards to throw away!

To make a long story short, some how while fixing the mistakes on the first pass prototype board, a couple of new mistakes crept in, which I didn't notice 'cuz they shouldn't have.

Two of the mistakes could have been fixed with new assembly instructions, but the third one I just found which is keeping the DDS chip from working needs a new board. The first two problems were just missing connections, the third has connections going to two pins swapped, which is a lot harder to fix.

So, I guess I'll have to buy some new boards and hope I get it right this time.

72, Steve KD1JV

8566. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-21 22:11:30 UTC
From: Colin Tuckley
Topic: 8564 Message: 8566

On 21/03/12 21:27, Steven wrote:

> Man, I can't belive it. I have 150 useless boards to throw away!

Ok, don't throw them away, maybe we can have a little competition for
suggestions on what you could do with them.

How about trail-markers?

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

8567. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-21 22:21:07 UTC
From: WA0ITP
Topic: 8564 Message: 8567

Any chance of us isolating those pads with a Dremel and running a
couple of jumpers?

I love this radio stuff !
72, 73 Terry, WA?ITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "Steven" <steve.kd1jv@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Wednesday, March 21, 2012 4:27 PM
Subject: [AT_Sprint] MTR: another delay

| Man, I can't belive it. I have 150 useless boards to throw away!
|
| To make a long story short, some how while fixing the mistakes on
the first pass prototype board, a couple of new mistakes crept in,
which I didn't notice 'cuz they shouldn't have.
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instructions, but the third one I just found which is keeping the DDS
chip from working needs a new board. The first two problems were just
missing connections, the third has connections going to two pins
swapped, which is a lot harder to fix.
|
| So, I guess I'll have to buy some new boards and hope I get it right
this time.
|
| 72, Steve KD1JV
|
|
|
| ---
|
| Yahoo! Groups Links
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8568. Re: Itchy To Build Something!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-21 22:46:18 UTC
From: jgaffke
Topic: 8560 Message: 8568

I've always been a sucker for regenerative receivers.
A really elegant solution, especially back in the day
when a vacuum tube was a day's salary.
Just keep in mind, those 80 year old tube designs can transmit
about as well as they receive.
Jerry Gaffke, KE7ER

--- In AT_Sprint@yahoogroups.com, James Rodenkirch
Here's a one tube version site:
http://makearadio.com/others/regenrx.php

8569. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-21 23:12:43 UTC
From: Milton A Riutort
Topic: 8564 Message: 8569

Very sad, but one good thing, we are hoping to have the new MTR on hand soon. Very interest to see that all the response are asking to keep the boards and fix them. Even, I am tented ...

He, he, very interesting.
Milton
NP4KT

Sent from my iPhone

On Mar 21, 2012, at 5:27 PM, "Steven" <steve.kd1jv@...> wrote:

> Man, I can't belive it. I have 150 useless boards to throw away!
>
> To make a long story short, some how while fixing the mistakes on the first pass prototype board, a couple of new mistakes crept in, which I didn't notice 'cuz they shouldn't have.
>
> Two of the mistakes could have been fixed with new assembly instructions, but the third one I just found which is keeping the DDS chip from working needs a new board. The first two problems were just missing connections, the third has connections going to two pins swapped, which is a lot harder to fix.
>
> So, I guess I'll have to buy some new boards and hope I get it right this time.
>
> 72, Steve KD1JV
>
>

8570. Re: MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-21 23:31:31 UTC
From: joen2cx
Topic: 8564 Message: 8570

Hi Steve,

Just a thought and likely you had it as well. If your alpha/beta group were highly skilled they might be able to do some rewiring kind of as Terrty WA0ITP suggested. I've had to cut traces and use 30 ga magnet wire as jumpers (don't ask why...) to fix miswires on boards with SMT IC's. Might not be good for production boards but for a small group of motivated careful builders it might save you the time of waiting for yet another run of boards.

Joe E., N2CX

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>
> So, I guess I'll have to buy some new boards and hope I get it right this time.
>
> 72, Steve KD1JV
>

8571. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 00:56:22 UTC
From: Steven Weber
Topic: 8564 Message: 8571

>Very sad, but one good thing, we are hoping to have the new MTR on hand soon. Very interest to see that all the response are asking to keep the boards and fix them. Even, I am tented ...

For some reason this rig has been giving me fits all along. Just the latest in little, annoying glitches. It happens sometimes. Once those are all fixed, it's going to be a sweet little rig.

The shop stopper problem can be fixed, but it's not easy. A ground and the reference clock input to the DDS chip are swapped. Idealy, this repair has to be done under a microscope. I'm sure some of you can do it, but not everyone. Not worth fussing with.

72, Steve

8572. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 01:56:46 UTC
From: Gil WA5YKK
Topic: 8564 Message: 8572

>Very sad, but one good thing, we are hoping to have the new MTR on hand soon. Very interest to see that all the response are asking to keep the boards and fix them. Even, I am tented ...

For some reason this rig has been giving me fits all along. Just the latest in little, annoying glitches. It happens sometimes. Once those are all fixed, it's going to be a sweet little rig.
The shop stopper problem can be fixed, but it's not easy. A ground and the reference clock input to the DDS chip are swapped. Idealy, this repair has to be done under a microscope. I'm sure some of you can do it, but not everyone. Not worth fussing with.
72, Steve

Steve;

At the risk of sounding dim about micro-problems, I' m curious about how much they cost - so I could obtain a few and make "tech decorations" out of them. Having a few in odd places as objects d'art could get some comments from the uninitiated and maybe cause a prospective new ham op to ask questions.

Just a thought, but I have "dead computer parts" mounted on the walls of my hobby rooms.....

73's
Gil WA5YKK

8573. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 02:59:53 UTC
From: Steven Weber
Topic: 8564 Message: 8573

Gil,

Good idea.

I've considered making a table top out of unused boards. Glue them down and cover with polyurathane. I might have enough for a dinning room table top, hi. I should at least make a coffee table.

Okay how about this, I send everyone a defective board in addition to the good one. The defective one could be used as a coaster when rubber feet are added or as a refridgerator magnet if a rubber magnet is glued to the back. To suggest a few off the top of my head.

Steve

At the risk of sounding dim about micro-problems, I' m curious about how much they cost - so I could obtain a few and make "tech decorations" out of them. Having a few in odd places as objects d'art could get some comments from the uninitiated and maybe cause a prospective new ham op to ask questions.

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8574. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 03:05:18 UTC
From: Yannick (XV4Y)
Topic: 8564 Message: 8574

Hum...
Could not be a great idea.
Imagine one starts to build the kit using the wrong board...

73,
Yan - XV4Y.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

Le 22 mars 2012 à 09:59, Steven Weber a écrit :

>
>
> Gil,
>
> Good idea.
>
> I've considered making a table top out of unused boards. Glue them down and cover with polyurathane. I might have enough for a dinning room table top, hi. I should at least make a coffee table.
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> Just a thought, but I have "dead computer parts" mounted on the walls of my hobby rooms.....
>
>
>
>

8575. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 04:02:22 UTC
From: Gil WA5YKK
Topic: 8564 Message: 8575

Yan;

Not a big problem, all that Steve needs to do is put a dab of different colored paint on each chip, "Genuine Defective", and it's a collector's item!

Make lemonaide out of lemons....

73's
Gil WA5YKK

Hum...
Could not be a great idea.
Imagine one starts to build the kit using the wrong board...

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>
> Just a thought, but I have "dead computer parts" mounted on the walls
of my hobby rooms.....
>
>

8576. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 04:35:34 UTC
From: Paul Mateer
Topic: 8564 Message: 8576

Bummer Steve! Been there done that too (many times unfortunately)! I've learned through the years to get a few boards via the $33 special (Advanced Circuits) until I'm satisfied...THEN I order production boards. Hind-site is 20-20

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8577. Re: MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 06:11:09 UTC
From: Vojtech
Topic: 8564 Message: 8577

I am sure me myself I can fix the two DDS leads with magnet wire and an exacto knife. It would be a great waste to throw the boards away.

Or you can just sell the boars as a "partial" kit if someone wants to build his own controller and VFO unit.

How about to offer a price break for a kit with the additional wiring necessary?

Vojtech

--- In AT_Sprint@yahoogroups.com, "joen2cx" <n2cx@...> wrote:
>
>
> Hi Steve,
>
> Just a thought and likely you had it as well. If your alpha/beta group were highly skilled they might be able to do some rewiring kind of as Terrty WA0ITP suggested. I've had to cut traces and use 30 ga magnet wire as jumpers (don't ask why...) to fix miswires on boards with SMT IC's. Might not be good for production boards but for a small group of motivated careful builders it might save you the time of waiting for yet another run of boards.
>
> Joe E., N2CX
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> --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@> wrote:
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> >
> > So, I guess I'll have to buy some new boards and hope I get it right this time.
> >
> > 72, Steve KD1JV
> >
>

8578. FOX: KØZK FoxHunt Announcem ent for Th ursday nig ht

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 13:05:50 UTC
From: Dale Putnam
Topic: 8578 Message: 8578

This one, and one next week, and the Game Warden will ring the bell to end the seasion.The two seasons this year have been split, the Warden already rang the bell on 80. Much to the consternation and in some cases agreement, 80M season is closed. And we have tonight and next Thursday to enjoy the FOXHUNTS... then the horn blows on 40 too. Good luck to all and to all a good hunt,

--... ..---
Dale - WC7S in Wyhttp://www.qrpfoxhunt.org

FoxHunt FoxHunt
FoxHunt FoxHunt Thursday night.
40 metres CW

0100 Z to 0230 Z on 23 MARCH 2012 somewhere between
7030. and 7050. kHz
you will be hearing KØZK calling, "CQ FOX DE KØZK
UP". I will be listening UP 0.5 to 2.0 kHz
above my transmit frequency at first. Later, I
will be listening ON my frequency. I will also
tune for RockMite-type rigs if and when permitting
towards 0200Z.
After you hear me acknowledge your call, you
send: your call, signal report, state, name, and power.
My return to you is, "559 ME ARN 5W"
I am located in South Western Maine in FN43nk on a dead
end dirt road, underground utilities. Battery power.
Elecraft K3 at 5 Watts to a ground plane on the roof of
a 2-story metal building fed with Andrews Heliax@.
Let's hope for a quieter evening than last week, lot's
o' fun, and remember, "....It's all fun and games until
someone gets an eye poked out".
*

* "A Christmas Story"
Jean Shepard,
K2ORS, SK

8579. Re: [AT_Sprint] Re: MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 13:15:20 UTC
From: Paul Mateer
Topic: 8564 Message: 8579

Good idea. Sell them as SMT practice boards or something like that. I'd get one just to play with the RX and add an external VFO.

On Thu, Mar 22, 2012 at 1:11 AM, Vojtech <bubnikv@...> wrote:

> **
>
>
> I am sure me myself I can fix the two DDS leads with magnet wire and an
> exacto knife. It would be a great waste to throw the boards away.
>
> Or you can just sell the boars as a "partial" kit if someone wants to
> build his own controller and VFO unit.
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> Vojtech
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>

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8580. MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 13:22:53 UTC
From: Michael O'Bannon
Topic: 8564 Message: 8580

Steve,

For those of us who are homebrewers, any chance we could buy a few of bad boards to cut and use in other circuits? I can imagine using the final amp in a couple of projects.

Best regards,
Michael KD4SGN

8581. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 14:09:41 UTC
From: Dale Putnam
Topic: 8564 Message: 8581

I like Steve's idea, a nice conversational table top. Or a set of coasters... That works very well!
Have a great day,
Dale - WC7S

-----Original Message-----
From: Gil WA5YKK <WA5YKK@...>
Date: Thu, 22 Mar 2012 04:02:22
To: <AT_Sprint@yahoogroups.com>
Subject: Re: [AT_Sprint] MTR: another delay

Yan;

Not a big problem, all that Steve needs to do is put a dab of different colored paint on each chip, "Genuine Defective", and it's a collector's item!

Make lemonaide out of lemons....

73's
Gil WA5YKK

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Imagine one starts to build the kit using the wrong board...

73,
Yan - XV4Y.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
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> Just a thought, but I have "dead computer parts" mounted on the walls of my hobby rooms.....
>
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8582. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 15:04:13 UTC
From: Bob Confrey
Topic: 8564 Message: 8582

Steve,
If thats the only problems with the PCB, thats not a show stopper
for me.....I've reworked much worse here at work....I'd take
one.....Bob....EDJ.....

On Wed, Mar 21, 2012 at 5:27 PM, Steven <steve.kd1jv@...> wrote:
> Man, I can't belive it. I have 150 useless boards to throw away!
>
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> 72, Steve KD1JV
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

8583. RE: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 15:29:03 UTC
From: Rob May
Topic: 8564 Message: 8583

I've reworked worse here too. I agree with Steve, you can't expect the average guy that builds his kits to deal with it. However, if he offered the reject board and programmed MCU (no kind of guarantee obviously) for a cheap enough price (I could probably source the other parts), I would take one.
Rob
NV5E

To: AT_Sprint@yahoogroups.com
From: bobc784@...
Date: Thu, 22 Mar 2012 11:04:13 -0400
Subject: Re: [AT_Sprint] MTR: another delay

Steve,

If thats the only problems with the PCB, thats not a show stopper

for me.....I've reworked much worse here at work....I'd take

one.....Bob....EDJ.....

On Wed, Mar 21, 2012 at 5:27 PM, Steven <steve.kd1jv@...> wrote:

> Man, I can't belive it. I have 150 useless boards to throw away!

>

> To make a long story short, some how while fixing the mistakes on the first pass prototype board, a couple of new mistakes crept in, which I didn't notice 'cuz they shouldn't have.

>

> Two of the mistakes could have been fixed with new assembly instructions, but the third one I just found which is keeping the DDS chip from working needs a new board. The first two problems were just missing connections, the third has connections going to two pins swapped, which is a lot harder to fix.

>

> So, I guess I'll have to buy some new boards and hope I get it right this time.

>

> 72, Steve KD1JV

>

>

>

> ---

>

> Yahoo! Groups Links

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>

>

8584. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 17:20:51 UTC
From: w9ya
Topic: 8564 Message: 8584

Me too !!

- Bob
w9ya

On Thu, Mar 22, 2012 at 9:29 AM, Rob May <roblitespeed@...> wrote:

> **
>
>
> I've reworked worse here too. I agree with Steve, you can't expect the
> average guy that builds his kits to deal with it. However, if he offered
> the reject board and programmed MCU (no kind of guarantee obviously) for a
> cheap enough price (I could probably source the other parts), I would take
> one.
> Rob
> NV5E
>
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: bobc784@gmail.com
> Date: Thu, 22 Mar 2012 11:04:13 -0400
> Subject: Re: [AT_Sprint] MTR: another delay
>
>
>
> Steve,
> If thats the only problems with the PCB, thats not a show stopper
> for me.....I've reworked much worse here at work....I'd take
> one.....Bob....EDJ.....
>
> On Wed, Mar 21, 2012 at 5:27 PM, Steven <steve.kd1jv@...> wrote:
> > Man, I can't belive it. I have 150 useless boards to throw away!
> >
> > To make a long story short, some how while fixing the mistakes on the
> first pass prototype board, a couple of new mistakes crept in, which I
> didn't notice 'cuz they shouldn't have.
> >
> > Two of the mistakes could have been fixed with new assembly
> instructions, but the third one I just found which is keeping the DDS chip
> from working needs a new board. The first two problems were just missing
> connections, the third has connections going to two pins swapped, which is
> a lot harder to fix.
> >
> > So, I guess I'll have to buy some new boards and hope I get it right

> this time.
> >
> > 72, Steve KD1JV
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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8585. Re: [AT_Sprint] MTR: another delay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-22 17:30:32 UTC
From: jaevans@pcisys.net
Topic: 8564 Message: 8585

If it means putting a few of these kits out there for those able to do the needed mods and freeing up some for those in need during final production, then I am all for it and can handle a few cuts and jumpers.

72 - john - n0hj

> Me too !!
>
> - Bob
> w9ya
>
> On Thu, Mar 22, 2012 at 9:29 AM, Rob May <roblitespeed@...> wrote:
>
> > **
> >
> >
> > I've reworked worse here too. I agree with Steve, you can't expect the
> > average guy that builds his kits to deal with it. However, if he offered
> > the reject board and programmed MCU (no kind of guarantee obviously) for
> a
> > cheap enough price (I could probably source the other parts), I would
tak> e
> > one.
> > Rob
> > NV5E

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

8586. my ats3b is blocking ! help please

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-24 14:59:12 UTC
From: seaman83
Topic: 8586 Message: 8586

Hi,
When the rig is power up , an 2 is annunciated en morse , and the receive is enabled . If i "touch" my straigt key an E is displayed the reception and emission are disabled... and i can`t exit from this mode !

An idea ?
thanks
Pierre - F5GSK -

8587. RE: [AT_Sprint] my ats3b is blocking ! help please

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-24 15:11:15 UTC
From: Dale Putnam
Topic: 8586 Message: 8587

Hi Pierre, The "E" is telling you that the "current fuse" has said the current is excessive. This is usually indicative of either too high a supply voltage or more likelya mismatched antenna. This is, of course, on a radio that has worked prior, and has just started doing this.Disconnect the power, for a couple minutes, repower it with just 9v, and connected to a 50ohm load. That should let it come up correctly, and prove the radio is ok.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: f5gsk@neuf.fr
Date: Sat, 24 Mar 2012 14:59:12 +0000
Subject: [AT_Sprint] my ats3b is blocking ! help please

Hi,

When the rig is power up , an 2 is annunciated en morse , and the

receive is enabled . If i "touch" my straigt key an E is displayed

the reception and emission are disabled... and i can`t exit from this

mode !

An idea ?

thanks

Pierre - F5GSK -

8588. Re: my ats3b is blocking ! help please

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-25 15:38:08 UTC
From: tlcfarmer@yahoo.com
Topic: 8586 Message: 8588

You don't mention this, but did you just finish your ATS-3B? I had a pcb short that caused the same problem you have. Once I found and fixed that short it worked fine.

Steve, KD1JV had me test the finals transistors with an ohmmeter for a short, and there was one. Test yours and if you have a short, look for a incomplete etch in the area of the 47v zener. I used a very powerful flashlight on the opposite side to shine through the pcb to find that short. A razor blade or x-acto knife cuts the copper bridge just fine.

You can search my callsign and see the discussion on this topic in the group.

Lincoln
N9IN

--- In AT_Sprint@yahoogroups.com, "seaman83" <f5gsk@...> wrote:
>
> Hi,
> When the rig is power up , an 2 is annunciated en morse , and the
> receive is enabled . If i "touch" my straigt key an E is displayed
> the reception and emission are disabled... and i can`t exit from this
> mode !
>
> An idea ?
> thanks
> Pierre - F5GSK -
>

8589. Re: [AT_Sprint] Re: my ats3b is blocking ! help please

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-25 16:05:47 UTC
From: pierre
Topic: 8586 Message: 8589

Le dimanche 25 mars 2012 à 15:38 +0000, tlcfarmer@... a écrit :
>
tks lincoln

>
> You don't mention this, but did you just finish your ATS-3B? I had a
> pcb short that caused the same problem you have. Once I found and
> fixed that short it worked fine.
>
> Steve, KD1JV had me test the finals transistors with an ohmmeter for a
> short, and there was one. Test yours and if you have a short, look for
> a incomplete etch in the area of the 47v zener. I used a very powerful
> flashlight on the opposite side to shine through the pcb to find that
> short. A razor blade or x-acto knife cuts the copper bridge just fine.
>
> You can search my callsign and see the discussion on this topic in the
> group.
>
> Lincoln
> N9IN
>
> --- In AT_Sprint@yahoogroups.com, "seaman83" <f5gsk@...> wrote:
> >
> > Hi,
> > When the rig is power up , an 2 is annunciated en morse , and the
> > receive is enabled . If i "touch" my straigt key an E is displayed
> > the reception and emission are disabled... and i can`t exit from
> this
> > mode !
> >
> > An idea ?
> > thanks
> > Pierre - F5GSK -
> >
>
>
>
>
>

8590. my ATS3B is blocking !

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-25 16:13:41 UTC
From: seaman83
Topic: 8590 Message: 8590

thanks Dave and Lincoln for your response.
It's unblocking now , but i think that the PA is out , i continue my search.
I buy it in second hand.
thanks
73's
Pierre F5GSK (83)

8591. Re: [AT_Sprint] Thermal Electric Generators

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-28 15:08:40 UTC
From: Cy Currier
Topic: 8187 Message: 8591

>_____
> Hi Steve,
>look up "biolite". it is already done fr u. a stove w a generator built in. it's pricy, though. Uncle C y
>
>
>From: Steven Carr <steve@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Friday, January 27, 2012 8:30 AM
>Subject: Re: [AT_Sprint] Thermal Electric Generators
>
>
>
>
>
>
>Steve,
>
>regarding the surplus 10w idea...the TEG is not very efficient, so it would be better to step down the voltage and increase the current. this would have the benefit of reducing how much input heat you need.
>
>Here's the backpacking wood stove I'd recommend (in titanium, but also available in stainless):
>
>http://www.vargooutdoors.com/Hexagon-Backpacking-Wood-Stove
>
>something to think about...to keep a fire going in a small stove you will need to use small fuel, so you won't be able to leave it unattended for long. also these stoves aren't really intended to run for long periods, so ash buildup may start limiting fresh air needed for the fire.
>
>Steve (ae4yq)
>
>
>
>On 01/26/2012 09:54 PM, Steven wrote:
>
>>I ordered a TEG (thermal electric generator)yesterday which should prove interesting to play with. It claims to be able to produce up to 15 V at 1 A, or 15 watts and at 3" x 3" x 0.5" is reasonably small. However, what kind of delta T it takes to produce 15W is not specified, I'll have to figure that out on my own.
>>

>>A TEG is made up of bimetalic semiconductor junctions wired in series/parallel. When placed between two metal plates (typcially aluminum), then heated on one side and cooled on the other, electricty is produced. These can also be use in reverse, putting current into them will cause one side to get cold and the other hot. This is known as the Peltier effect and is used for CPU cooling. However, I found out the coolers have all thier juncitons wired in parallel, so only produce a small voltage when used as a generator.
>>
>>My plan is to use the TEG to charge Li-ion batteries during extended hiking trips. It's easier to arrange for fire at night then sun during the day! But there is something I want to try. For charging batteries, I will only need 5 V at a few hundred ma. Since that will have to be regulated, why not take the "wasted" power and put it back into the generator by mounting the regulator on the "hot" side of the TEG? In theory, over 10 watts can be pumped back into the TEG.
>>
>>I'm wondering if this can effectively bootstap the process. Cold running water is typically available out in the wilderness. Put the cold side heatsink into the running water and electricity should be produced though maybe not a lot at first. If this is disapated directly into the hot side of the TEG by a power transistor, it should start to warm up, making a larger temperature differental, making more juice and so on until some equalibrium is reached. Shades of perpertual motion :-)
>>
>>Another question is will there be enough surplus energy left over to do the charging? Yet other question is if the process has to be started by first heating up the hot side and if it would then remain self-substaining?
>>
>>But if that doesn't work, plan B is to get a little backpackable wood stove and use that as the heat source. I'm looking at one made of titanium plates which lock together to make a box. Since this stove has flat sides, attaching the TEG to it would be simple.
>>
>>The advantage of Plan A is that if it works it could be left unattended all night to charge something. Plan B would require keeping a close eye on the wood stove, which goes through fuel quickly. Not a lot of fuel, but it burns up small sticks pretty fast.
>>
>>In any event, this should prove to be interesting to try.
>>

>>72, Steve KD1JV
>>
>>
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>
>
>

8592. FOX: 40 Meter Fox Hunt - Thursday

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-29 15:23:17 UTC
From: Dale Putnam
Topic: 8592 Message: 8592

The Last regular scheduled FOXHUNT of this season, in the 40 acre wood, is being hosted by two very fine FOXii, WA4ILO and K9CW, fine operators/foxii.. (Thursday evening, 0100z, +/- 10 fm 7.040) and what a fine way to end the season, but to grab a pelt from each of them, in the 90 minute allowed to chase the fox. Check the rules: http://www.qrpfoxhunt.organd you can also find the results for the season so far. Now.. if the Game Warden sees fit, (is pleased with the turnout) the rumor is: There may be one more hunt.. in the combined forest, 80 and 40, with all the FOXii available to be chased. But the Warden has been very clear, if the turnout for this last hunt in the 40 acre wood isn't satisfactory..... My best wishes for a grand and fun hunt to each of the Fine Foxii and to each and every one of the hounds. It is a certainty, there will be pelts, to be had, and fun for all. Tis a fine day for a FOXHUNT!!

--... ...--
Dale - WC7S in Wy

--

8593. Re: ATS3B Audio Mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-30 14:58:19 UTC
From: g8tmv
Topic: 8401 Message: 8593

"Steven Weber" <steve.kd1jv@...> wrote:

> It doesn't matter much if the cap goes to ground or across the resistor. Doing the mod to the 3's, its easier to put it across the resistor. It was easier to put it to ground when laid out on the board.

Steve, I recently tried this mod (cap across R3) on my ATS-3B and came across a problem with it.

My usual headphones work ok, but when I try my ear-buds I get a continuous tone while on Rx. I've tried several different types of headphones and have come to the conclusion that it's the lower impedance ones that cause the problem.

I've tried the alternative mod with the cap to ground but it doesn't make any difference.

Any ideas?

Colin G8TMV

8594. Re: [AT_Sprint] Re: ATS3B Audio Mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-03-30 16:35:51 UTC
From: Steven Weber
Topic: 8401 Message: 8594

The low impedance phones are causing the op amp to oscillate. You need to add a little series resistance or use higher impedance phones.
Steve

>
> My usual headphones work ok, but when I try my ear-buds I get a continuous
> tone while on Rx. I've tried several different types of headphones and
> have come to the conclusion that it's the lower impedance ones that cause
> the problem.
>

8595. ATS-4B programming port

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-01 01:41:20 UTC
From: jr1kda_ag6gt
Topic: 8595 Message: 8595

Hello All,

Now I am making ATS-4B.
There are seven programming ports on board, but no connector is included the kit package.
I am wondering to put the additional connector on board.
Do I need the programming ports connector?
Also my PC has printer port.

Best Regards,
Sho/JR1KDA/AG6GT

8596. Re: [AT_Sprint] ATS-4B programming port

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-01 16:46:18 UTC
From: Steven Weber
Topic: 8595 Message: 8596

You do not need to put a connector in the programming port. If there is ever a need to use the port to update the firmware, SIP header pins can be inserted and make contact by friction, so they can be removed once the programming is done.

Steve KD1JV

> Now I am making ATS-4B.
> There are seven programming ports on board, but no connector is included
> the kit package.
> I am wondering to put the additional connector on board.
> Do I need the programming ports connector?
> Also my PC has printer port.

8597. Do I need the programming port connector on board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-01 06:20:49 UTC
From: Shoji Iwasaki
Topic: 8597 Message: 8597

Hello All,

Now I am making the ATS-4B.
There are seven programming port through holes on the board.
But there is no connector included in the kit.

I guess their are few many times to update the firmware, so kit does not
have a programming port connector.
I guess so.

So do I need the programming port connector on the board?

Best Regards,
Sho / JR1KDA / AG6GT

--
Shoji Iwasaki <ktm@...-net.ne.jp>

8598. Re: [AT_Sprint] Do I need the programming port connector on board?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-01 20:46:04 UTC
From: Steven Weber
Topic: 8597 Message: 8598

> So do I need the programming port connector on the board?

No, you do not or it would have been supplied.
KD1JV

8599. Fwd: [qrp-l.org] New Steve Weber Transceiver to be at Dayton

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-01 21:51:59 UTC
From: Randy Moore
Topic: 8599 Message: 8599

Is this the MTR?

73,
Randy, KS4L

Begin forwarded message:

> From: "Doug Hendricks" <ki6ds@...>
> Date: April 1, 2012 4:04:42 PM CDT
> To: <qrp-l@...>
> Cc: qrp-l@...
> Subject: [qrp-l.org] New Steve Weber Transceiver to be at Dayton
> Reply-To: ki6ds@...
>
> Hendricks QRP Kits will be introducing a new CW Transceiver at Dayton this
> year. Steve will be in our booth, which will be at a new location: Booth
> Numbers 459 and 460 which is right next to the TAPR booth, and right across
> the aisle from the ARRL. You will want to stop by and say hello to Steve
> and take a look at the new kit. More details will be announced later, but
> we will definitely have kits there to sell. 72, Doug
>
>
> _____
> http://mail.qrp-l.org/mailman/listinfo/qrp-l_qrp-l.org

8600. Re: [AT_Sprint] Fwd: [qrp-l.org] New Steve Weber Transceiver to be at Dayton

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-01 23:03:24 UTC
From: Steven Weber
Topic: 8599 Message: 8600

Nope, it's a mostly through hole rig.

Is this the MTR?

Hendricks QRP Kits will be introducing a new CW Transceiver at Dayton this year. Steve will be in our booth, which will be at a new location: Booth

8601. Re: [AT_Sprint] ATS-4B programming port

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-01 21:59:13 UTC
From: Shoji Iwasaki
Topic: 8595 Message: 8601

Thanks for the comments, Steven.

73,
Sho/JR1KDA

On Sun, 1 Apr 2012 12:46:18 -0400
"Steven Weber" <steve.kd1jv@...> wrote:

> You do not need to put a connector in the programming port. If there is ever
> a need to use the port to update the firmware, SIP header pins can be
> inserted and make contact by friction, so they can be removed once the
> programming is done.
>
> Steve KD1JV
>
> > Now I am making ATS-4B.
> > There are seven programming ports on board, but no connector is included
> > the kit package.
> > I am wondering to put the additional connector on board.
> > Do I need the programming ports connector?
> > Also my PC has printer port.
>
>
>
>

--
Shoji Iwasaki <ktm@...-net.ne.jp>

8602. Re: [AT_Sprint] Fwd: [qrp-l.org] New Steve Weber Transceiver to be at Dayton

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-02 21:19:30 UTC
From: Roland Whitsitt
Topic: 8599 Message: 8602

A new through-hole cw kit? I'd like to see that!

Sent from my iPhone

On Apr 1, 2012, at 16:03, "Steven Weber" <steve.kd1jv@...> wrote:

> Nope, it's a mostly through hole rig.
> Is this the MTR?
>
>> Hendricks QRP Kits will be introducing a new CW Transceiver at Dayton this
>> year. Steve will be in our booth, which will be at a new location: Booth
>
>

8603. Re: [AT_Sprint] Fwd: [qrp-l.org] New Steve Weber Transceiver to be at Dayton

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-02 22:13:45 UTC
From: Steven Weber
Topic: 8599 Message: 8603

Well, wait month or so and you will :)
Bascially, It's the dual bander with an additional relay installed to make it cover 3 bands and repackaged in the NADC box, which is a lot more practical then the box the dual bander was in.

A new through-hole cw kit? I'd like to see that!

It's a mostly through hole rig.

Is this the MTR?

Hendricks QRP Kits will be introducing a new CW Transceiver at Dayton this year. Steve will be in our booth, which will be at a new location: Booth

8604. Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-02 23:27:58 UTC
From: nr7f_mike
Topic: 8604 Message: 8604

Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.

Is it possible that something on the main board is wrong, but affects 15M but not other bands. I've only built and tested 40M and 20M so far.

I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.

Any help is welcome. Thanks.

Mike
NR7F

8605. Re: [AT_Sprint] Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-02 23:42:05 UTC
From: Michael Harnage
Topic: 8604 Message: 8605

Very likely it's the 15M filter board. Make sure the resistor is correct. Triple check all inductor's for continuity where it should be and where it should not be. Maybe clean off the board?

-mike

>_____
> From: nr7f_mike <nr7fcall@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Monday, April 2, 2012 7:27 PM
>Subject: [AT_Sprint] Deaf on 15M
>
>Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.
>
>Is it possible that something on the main board is wrong, but affects 15M but not other bands. I've only built and tested 40M and 20M so far.
>
>I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.
>
>Any help is welcome. Thanks.
>
>Mike
>NR7F
>
>
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>
>Yahoo! Groups Links
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>

8606. RE: [AT_Sprint] Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 00:52:04 UTC
From: Dale Putnam
Topic: 8604 Message: 8606

Hi Mike, Chances are it is the filter board. High likelyhood, the wire from the toroids doesn't make good connection, and of course, a clean board is a good board, If your radio plays well with the other filters, and everything looks and ohmeters well.. one last check, would be the connections of the band setting resistor. If you'd like, send it to me, and I'll check it over for you, send it back... you'd get to pay for the postage. I'm thinking it will play, sometimes... it takes a very strong light and a very good magnifier to see the issue.Good Luck,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: w1mt@...
Date: Mon, 2 Apr 2012 16:42:05 -0700
Subject: Re: [AT_Sprint] Deaf on 15M

Very likely it's the 15M filter board. Make sure the resistor is correct. Triple check all inductor's for continuity where it should be and where it should not be. Maybe clean off the board?
-mike

From: nr7f_mike <nr7fcall@...>
To: AT_Sprint@yahoogroups.com
Sent: Monday, April 2, 2012 7:27 PM
Subject: [AT_Sprint] Deaf on 15M

Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.

Is it possible that something on the main board is wrong, but affects 15M but not other bands. I've only built and tested 40M and 20M so far.

I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.

Any help is welcome. Thanks.

Mike
NR7F

Yahoo! Groups Links

8607. FS: ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 02:02:10 UTC
From: ww2r_dave
Topic: 8607 Message: 8607

Relocation forces sale of my built and working ATS4B.

It is setup for 80/40/30/20/15m.

Since completion it has worked 27 countries on my PAC-12 antena from Texas

Asking $255, shipped to USA only. Paypal OK. Comes with power plug and build CD

If interested email me off the list

Dave

8608. Re: [AT_Sprint] FS: ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 03:05:54 UTC
From: Tore Sandström
Topic: 8607 Message: 8608

Hello!
I am interested..and can pay via Paypal.
I dont it will be any problem I am in Sweden/shipping to Sweden.
I have bougt many things from USA.....
So if you wish I am interested.
Regards
Tore Sandström SM7CBS

Den 3 april 2012 04:02 skrev ww2r_dave <ww2r2@...>:

> **
>
>
> Relocation forces sale of my built and working ATS4B.
>
> It is setup for 80/40/30/20/15m.
>
> Since completion it has worked 27 countries on my PAC-12 antena from Texas
>
> Asking $255, shipped to USA only. Paypal OK. Comes with power plug and
> build CD
>
> If interested email me off the list
>
> Dave
>
>
>

8609. Re: FS: ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 03:33:08 UTC
From: ww2r_dave
Topic: 8607 Message: 8609

The ATS4B has been sold

Dave

ww2r

--- In AT_Sprint@yahoogroups.com, "ww2r_dave" <ww2r2@...> wrote:
>
> Relocation forces sale of my built and working ATS4B.
>
> It is setup for 80/40/30/20/15m.
>
> Since completion it has worked 27 countries on my PAC-12 antena from Texas
>
> Asking $255, shipped to USA only. Paypal OK. Comes with power plug and build CD
>
> If interested email me off the list
>
> Dave
>

8610. Re: Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 03:36:16 UTC
From: nr7f_mike
Topic: 8604 Message: 8610

Dale and Mike:

Thanks for the thoughts on this.

Boy, I've scrutinized the filter board, and just do not find anything. I've done the things you suggested, which is not to say I didn't missed a check that I should do.

The band is dead now, so I'll have to check again tomorrow.

It seems like the filter board but I went ahead and checked the voltage reading (and scrutinized my work on the main board). There are a couple voltage readings that are not close to what is in the voltage tables. Plus, I've never thought the receiver in my ATS3b is a good as the one in my ATS3a, which makes me suspicious of something on the main board. The 3b signals just don't seem quite as strong, and the tone is not as clean. I know the head phones can be an issue, but I don't know if head phones that work well on the 3a should also work well on the 3b.

I get these voltages:

U5: pin 1 is 5 volts, but it should be 1.3; pin 5 is about 1 volt, but should be 5v

U4: pin 3 is 2.6v but should be 0v

U6: pin 1 is 1v, should be 0; pin 3 is 3.5v, should be 0v; pin 24 and 24 are both 3.5v but should be 0v; pin 20 is 8v, should be 0/3.5v

U7: pin 13 is 3.5v, should be0

I don't know if any of these are signs of something wrong with the main board, but they sure don't match the voltage table. And it doesn't make sense that 20M and 40M work ok.

Sorry for through more into the mix. Trouble shooting is always a challenge for me, and doubly so with SMT when I feel like I need a microscope to check my work.

Mike
NR7F

The resistor is fine, and I checked the connection to the board.
--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Hi Mike, Chances are it is the filter board. High likelyhood, the wire from the toroids doesn't make good connection, and of course, a clean board is a good board, If your radio plays well with the other filters, and everything looks and ohmeters well.. one last check, would be the connections of the band setting resistor. If you'd like, send it to me, and I'll check it over for you, send it back... you'd get to pay for the postage. I'm thinking it will play, sometimes... it takes a very strong light and a very good magnifier to see the issue.Good Luck,

>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: w1mt@...
> Date: Mon, 2 Apr 2012 16:42:05 -0700
> Subject: Re: [AT_Sprint] Deaf on 15M
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> Very likely it's the 15M filter board. Make sure the resistor is correct. Triple check all inductor's for continuity where it should be and where it should not be. Maybe clean off the board?
> -mike
>
> From: nr7f_mike <nr7fcall@...>
> To: AT_Sprint@yahoogroups.com
> Sent: Monday, April 2, 2012 7:27 PM
> Subject: [AT_Sprint] Deaf on 15M
>
>
> Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.

>
> Is it possible that something on the main board is wrong, but affects 15M but not other bands. I've only built and tested 40M and 20M so far.
>
> I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.
>
> Any help is welcome. Thanks.
>
> Mike
> NR7F
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> Yahoo! Groups Links
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8611. Re: [AT_Sprint] Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 04:20:36 UTC
From: Roland Whitsitt
Topic: 8604 Message: 8611

There's a 15m filter board for the ats3? How did I miss out on that one? Man!

Sent from my iPhone

On Apr 2, 2012, at 16:42, Michael Harnage <w1mt@yahoo.com> wrote:

> Very likely it's the 15M filter board. Make sure the resistor is correct. Triple check all inductor's for continuity where it should be and where it should not be. Maybe clean off the board?
>
> -mike
>
> From: nr7f_mike <nr7fcall@...>
> To: AT_Sprint@yahoogroups.com
> Sent: Monday, April 2, 2012 7:27 PM
> Subject: [AT_Sprint] Deaf on 15M
>
> Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.
>
> Is it possible that something on the main board is wrong, but affects 15M but not other bands. I've only built and tested 40M and 20M so far.
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> I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.
>
> Any help is welcome. Thanks.
>
> Mike
> NR7F
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> Yahoo! Groups Links
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8612. Re: Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 05:46:09 UTC
From: nr7f_mike
Topic: 8604 Message: 8612

3b, yes. Obviously comparing the two rigs on other than 15M :)

--- In AT_Sprint@yahoogroups.com, Roland Whitsitt <tx2hpv@...> wrote:
>
> There's a 15m filter board for the ats3? How did I miss out on that one? Man!
>
> Sent from my iPhone
>
> On Apr 2, 2012, at 16:42, Michael Harnage <w1mt@...> wrote:
>
> > Very likely it's the 15M filter board. Make sure the resistor is correct. Triple check all inductor's for continuity where it should be and where it should not be. Maybe clean off the board?
> >
> > -mike
> >
> > From: nr7f_mike <nr7fcall@...>
> > To: AT_Sprint@yahoogroups.com
> > Sent: Monday, April 2, 2012 7:27 PM
> > Subject: [AT_Sprint] Deaf on 15M
> >
> > Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.
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> > Is it possible that something on the main board is wrong, but affects 15M but not other bands. I've only built and tested 40M and 20M so far.
> >
> > I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.
> >
> > Any help is welcome. Thanks.
> >
> > Mike
> > NR7F
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8613. RE: [AT_Sprint] Re: Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 13:33:42 UTC
From: Dale Putnam
Topic: 8604 Message: 8613

Hi Mike, The voltages you measured are with a working filter... all the filters... or just the 15M one? The 3b has been noted as being somewhat sensitive to earphone impedances, to raise the level of the audio to the usable level. I'm interested in the voltages of U5, pin 5 specifically. Sometimes the band noise isn't high enough to tune the filter boards with due to the excellant filtering in the rx. Maybe using a very low pwr tx into a dummy load, would generate enough signal to tune to?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: nr7fcall@...
Date: Tue, 3 Apr 2012 03:36:16 +0000
Subject: [AT_Sprint] Re: Deaf on 15M

Dale and Mike:

Thanks for the thoughts on this.

Boy, I've scrutinized the filter board, and just do not find anything. I've done the things you suggested, which is not to say I didn't missed a check that I should do.

The band is dead now, so I'll have to check again tomorrow.

It seems like the filter board but I went ahead and checked the voltage reading (and scrutinized my work on the main board). There are a couple voltage readings that are not close to what is in the voltage tables. Plus, I've never thought the receiver in my ATS3b is a good as the one in my ATS3a, which makes me suspicious of something on the main board. The 3b signals just don't seem quite as strong, and the tone is not as clean. I know the head phones can be an issue, but I don't know if head phones that work well on the 3a should also work well on the 3b.

I get these voltages:

U5: pin 1 is 5 volts, but it should be 1.3; pin 5 is about 1 volt, but should be 5v

U4: pin 3 is 2.6v but should be 0v

U6: pin 1 is 1v, should be 0; pin 3 is 3.5v, should be 0v; pin 24 and 24 are both 3.5v but should be 0v; pin 20 is 8v, should be 0/3.5v

U7: pin 13 is 3.5v, should be0

I don't know if any of these are signs of something wrong with the main board, but they sure don't match the voltage table. And it doesn't make sense that 20M and 40M work ok.

Sorry for through more into the mix. Trouble shooting is always a challenge for me, and doubly so with SMT when I feel like I need a microscope to check my work.

Mike

NR7F

The resistor is fine, and I checked the connection to the board.

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

>

> Hi Mike, Chances are it is the filter board. High likelyhood, the wire from the toroids doesn't make good connection, and of course, a clean board is a good board, If your radio plays well with the other filters, and everything looks and ohmeters well.. one last check, would be the connections of the band setting resistor. If you'd like, send it to me, and I'll check it over for you, send it back... you'd get to pay for the postage. I'm thinking it will play, sometimes... it takes a very strong light and a very good magnifier to see the issue.Good Luck,

>

> --... ...--

> Dale - WC7S in Wy

> To: AT_Sprint@yahoogroups.com

> From: w1mt@...

> Date: Mon, 2 Apr 2012 16:42:05 -0700

> Subject: Re: [AT_Sprint] Deaf on 15M

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> Very likely it's the 15M filter board. Make sure the resistor is correct. Triple check all inductor's for continuity where it should be and where it should not be. Maybe clean off the board?

> -mike

>

> From: nr7f_mike <nr7fcall@...>

> To: AT_Sprint@yahoogroups.com

> Sent: Monday, April 2, 2012 7:27 PM

> Subject: [AT_Sprint] Deaf on 15M

>

>

> Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.

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>

> I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.

>

> Any help is welcome. Thanks.

>

> Mike

> NR7F

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> Yahoo! Groups Links

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8614. RE: [AT_Sprint] FS: ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 03:13:04 UTC
From: w4ien@comcast.net
Topic: 8607 Message: 8614

Dave,
I would like to buy the ATS4B. Please send me your PayPal userid and I will
send the money tonight.

Robin
W4IEN
w4ien@...
678-488-9655

Original Message:

From: ww2r_dave ww2r2@...
Date: Tue, 03 Apr 2012 02:02:10 -0000
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] FS: ATS4B

Relocation forces sale of my built and working ATS4B.

It is setup for 80/40/30/20/15m.

Since completion it has worked 27 countries on my PAC-12 antena from Texas

Asking $255, shipped to USA only. Paypal OK. Comes with power plug and build CD

If interested email me off the list

Dave

---

mail2web.com ☐ What can On Demand Business Solutions do for you?
http://link.mail2web.com/Business/SharePoint

8615. Re: [AT_Sprint] FS: ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 03:21:24 UTC
From: Wilford D Lindsey
Topic: 8607 Message: 8615

Dave:

Well I sure wish circumstances wud allow an *even* trade of my Ten Tec ARGO515 SSB/CW rig complete with literally every factory built accessory which Ten Tec ever made for it. PLUS a number of valuable extras such as a complete set of new knobs and end pieces and a matching Electrovoice desk mike and stand.

I am extremely interested in a 4B, an as a quadraplegic and ex-POW veteran of the Vietnam War I wud give it a wonderful home and take exquisite care of it.

Any chance you might consider this unusual counter offer, sir? My cellphone # is 505-366-7182 and I live in ABQ NM. Sure wud luv to hear from youm

73,
Doc/K0EVZ

Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: "ww2r_dave" <ww2r2@g4fre.com>
Sender: AT_Sprint@yahoogroups.com
Date: Tue, 03 Apr 2012 02:02:10
To: <AT_Sprint@yahoogroups.com>
Reply-To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] FS: ATS4B

Relocation forces sale of my built and working ATS4B.

It is setup for 80/40/30/20/15m.

Since completion it has worked 27 countries on my PAC-12 antena from Texas

Asking $255, shipped to USA only. Paypal OK. Comes with power plug and build CD

If interested email me off the list

Dave

8616. help with menu

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 06:14:18 UTC
From: Tim Goodrich
Topic: 8616 Message: 8616

Hi all,

I recently took delivery of an ATS3B and am having some difficulty with the menus. Somehow, the rig is stuck in a mode that has the freq up/down keys in a transmitting mode. I know this is an option and I have tried to disable it by holding mode, cycling through S,M,D,P, and A, then pressing SPLIT to choose between "A"lternative and ""N"ormal. I've set it both ways and the freq up/down buttons continue to transmit.**** I think I just fixed it. First, I changed it back to alternative mode and then hit split to exit (or enter) transmit mode. This made the freq up/down buttons revert to their purpose of changing the freq, but now, when I hold down Menu and it reads out the S,M, etc, the rig is actually transmitting. Any help here?

And does anyone have a cheatsheet and/or graphic that more easily explains all these functions?

Very frustrated,

Tim

K6TW

8617. ATS4B IS SOLD

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 14:18:19 UTC
From: ww2r_dave
Topic: 8617 Message: 8617

Despite posting at 2233 last night that the ATS4B has been sold (message #8609...it sold within 22 minutes!) since then I have received 8 offers to buy it here and in private emails. Its already on its way to its new home.

Dave

ww2r

8618. Re: [AT_Sprint] help with menu

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 16:19:41 UTC
From: Colin Tuckley
Topic: 8616 Message: 8618

On 03/04/12 07:14, Tim Goodrich wrote:

> And does anyone have a cheatsheet and/or graphic that more easily
> explains all these functions?

Take a look in the files section of the Yahoo Goup, I know there is one
there somewhere.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

I spilled spot remover on my dog, and now he's gone!

8619. Re: [AT_Sprint] Re: Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 17:30:36 UTC
From: Steven Weber
Topic: 8604 Message: 8619

Either your not counting the pins correctly or you have a bunch of bad solder connections. With some of the votages you list, it should not be working at all.

Seeing that pretty much every one of these which have been sent back to me to look at I've fixed by repairing solder connections, that's what you have to look for.

Steve KD1JV

> I get these voltages:
>
> U5: pin 1 is 5 volts, but it should be 1.3; pin 5 is about 1 volt, but
> should be 5v
> U4: pin 3 is 2.6v but should be 0v
> U6: pin 1 is 1v, should be 0; pin 3 is 3.5v, should be 0v; pin 24 and 24
> are both 3.5v but should be 0v; pin 20 is 8v, should be 0/3.5v
> U7: pin 13 is 3.5v, should be0

8620. Re: Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 19:57:11 UTC
From: nr7f_mike
Topic: 8604 Message: 8620

I've narrowed it to U5 being the problem. The other voltage reading issues were me pressing down on a menu button as I touched the board for the readings. The reading on U5 are off regardless of which board in attached.

So pin 1 on U5 is much too high, and pin 5 is much too low. I think this would explain why I've never felt this radio receives as well as my 3a.

I do not solder SMT very pretty, so somewhere in my poor soldering is the problem, but darned if I can find it. I use a very power full magnifier, and I've touched up suspicious connections obviously still not getting it right. I checked and touched up components that connect to U5.

I really should stay away from SMT kits, but there just is nothing close to the performance and compact nature.

Mike

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Either your not counting the pins correctly or you have a bunch of bad
> solder connections. With some of the votages you list, it should not be
> working at all.
>
> Seeing that pretty much every one of these which have been sent back to me
> to look at I've fixed by repairing solder connections, that's what you have
> to look for.
>
> Steve KD1JV
>
>
> > I get these voltages:
> >
> > U5: pin 1 is 5 volts, but it should be 1.3; pin 5 is about 1 volt, but
> > should be 5v
> > U4: pin 3 is 2.6v but should be 0v
> > U6: pin 1 is 1v, should be 0; pin 3 is 3.5v, should be 0v; pin 24 and 24
> > are both 3.5v but should be 0v; pin 20 is 8v, should be 0/3.5v
> > U7: pin 13 is 3.5v, should be0
>

8621. Re: [AT_Sprint] Re: Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 20:21:42 UTC
From: Stephen Wandling
Topic: 8604 Message: 8621

Mike,

Take another look at page 27 in the documentation.

Pin 1 on U5 is connected directly to the 5 VDC supply and can only be 5
VDC. Pin 5 is supposed to be 0.96 VDC.

I am not sure why you feel these voltages are wrong.

If I had to guess, I would suspect that you might not have gotten the
toroid wire scraped bare enough on LF3 and/or LF4, before soldering it in.

72 Stephen VE7NSD

On 03/04/2012 12:57 PM, nr7f_mike wrote:
> I've narrowed it to U5 being the problem. The other voltage reading issues were me
pressing down on a menu button as I touched the board for the readings. The reading on U5
are off regardless of which board in attached.
>
> So pin 1 on U5 is much too high, and pin 5 is much too low. I think this would explain
why I've never felt this radio receives as well as my 3a.
>
> I do not solder SMT very pretty, so somewhere in my poor soldering is the problem, but
darned if I can find it. I use a very power full magnifier, and I've touched up suspicious
connections obviously still not getting it right. I checked and touched up components that
connect to U5.
>
> I really should stay away from SMT kits, but there just is nothing close to the
performance and compact nature.
>
> Mike
>
>
>
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber"<steve.kd1jv@...> wrote:
>
>> Either your not counting the pins correctly or you have a bunch of bad
>> solder connections. With some of the votages you list, it should not be
>> working at all.
>>
>> Seeing that pretty much every one of these which have been sent back to me
>> to look at I've fixed by repairing solder connections, that's what you have
>> to look for.
>>
>> Steve KD1JV

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>>
>>
>>
>>> I get these voltages:
>>>
>>> U5: pin 1 is 5 volts, but it should be 1.3; pin 5 is about 1 volt, but
>>> should be 5v
>>> U4: pin 3 is 2.6v but should be 0v
>>> U6: pin 1 is 1v, should be 0; pin 3 is 3.5v, should be 0v; pin 24 and 24
>>> are both 3.5v but should be 0v; pin 20 is 8v, should be 0/3.5v
>>> U7: pin 13 is 3.5v, should be0
>>>
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> Yahoo! Groups Links
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8622. Re: [AT_Sprint] Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 20:34:37 UTC
From: Hank Greeb
Topic: 8604 Message: 8622

Going way back to your first message, you didn't say anything about voltages, etc. You mention voltages later - but did you compare voltages at various points when you have your working 20 metre board installed vs voltages with your non working 15 metre board? It seems very specious that you could be getting normal output on 15 Metres, yet the recevier won't receive on the band.

And, it also seems strange that the rig works fine, makes contacts, etc., on 20 and 40, but not work on 15 metres

Try making a spreadsheet of voltages on various bands at several points - maybe that will help the "gurus" understand the situation.

72/73 de n8xx Hg

On 4/2/2012 7:27 PM, nr7f_mike wrote:
> Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.
>
> Is it possible that something on the main board is wrong, but affects 15M but not other bands. I've only built and tested 40M and 20M so far.
>
> I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.
>
> Any help is welcome. Thanks.
>
> Mike
> NR7F

8623. Re: Deaf on 15M

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 21:14:43 UTC
From: nr7f_mike
Topic: 8604 Message: 8623

Correct, the voltages were a new discovery. I went back and checked the main board after my message. Per one of my messages, I think it's U5 that has the issue (although, the filter board for 15M may be problematic too). It's only because I've had a nagging sense of something not quite right with the receiver (signals never seemed real clean) that I went back to the main board after 15M failed to work.

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
> Going way back to your first message, you didn't say anything about
> voltages, etc. You mention voltages later - but did you compare
> voltages at various points when you have your working 20 metre board
> installed vs voltages with your non working 15 metre board? It seems
> very specious that you could be getting normal output on 15 Metres, yet
> the recevier won't receive on the band.
>
> And, it also seems strange that the rig works fine, makes contacts,
> etc., on 20 and 40, but not work on 15 metres
>
> Try making a spreadsheet of voltages on various bands at several points
> - maybe that will help the "gurus" understand the situation.
>
> 72/73 de n8xx Hg
>
> On 4/2/2012 7:27 PM, nr7f_mike wrote:
> > Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.
> >
> > Is it possible that something on the main board is wrong, but affects 15M but not other bands. I've only built and tested 40M and 20M so far.
> >
> > I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.
> >
> > Any help is welcome. Thanks.
> >
> > Mike
> > NR7F
>

8624. Re: Deaf on 15M--DEAF NO MORE!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-03 23:51:04 UTC
From: nr7f_mike
Topic: 8604 Message: 8624

Thanks everyone for helping with my remedial electronics abilities :) The problem is resolved, and it partly relates to operator error. Figures.

First the voltage issues. The manual that came with the radio is different than the version ATS3b1 in that the pin locations in the schematic, and the voltages in the voltage tables are different. In using the 3b1 manual (rather than the 3b manual), which I assume is really the right one, all voltages are fine. This is what happens when you mostly leave the hobby for 3 years with the radio only 80 percent finished, then come back to finish it; you get out of the loop. Thank you Stephen VE7NSD, for pointing out that from your perspective, the voltages were fine. That made me suspect there was an updated manual out there.

As far as 15M, well, it works now. I don't know if it's because I redid the torroids or because Dale WC7S comments about adjusting the trimmer caps carefully, with a signal, not just band noise made me go back and redo that part....or both. But anyway, adjusting the caps to a weak signal made a big difference. I also find that the caps are a little "peaky"...they like a pretty specific setting.

And thanks Steve for responding about the voltage readings. Those comments also made me suspect something with my voltage readings was off, because in fact the radio DID work (on other bands) even with my crazy voltage readings.

I'm the world's worst trouble shooter, but I always learn from this stuff, and you guys are great for reading/commenting.

Thanks again.

Mike
NR7F

--- In AT_Sprint@yahoogroups.com, "nr7f_mike" <nr7fcall@...> wrote:
>
> Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.
>
> Is it possible that something on the main board is wrong, but affects 15M but not other bands. I've only built and tested 40M and 20M so far.
>
> I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.
>
> Any help is welcome. Thanks.
>
> Mike
> NR7F

>

8625. RE: [AT_Sprint] Re: Deaf on 15M--DEAF NO MORE!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-04 00:01:46 UTC
From: Dale Putnam
Topic: 8604 Message: 8625

Wonderful Mike, Being inexperienced at troubleshooting isn't a failure... only means you have a bit more time to learn it... no problem, and with thehelp that is available on the reflectors... you got it made... build away. Oh.. and don't forget to put the little guy on the air too... you can sure have fun there too.See you on the air one day.. we can do a 3-2-3-Q. Happy to hear it is working better now. You sure didn't waste this day.

--... ...--
Dale - WC7S in Wy"-A day that goes by without learning something new....Is a day wasted, indeed."
To: AT_Sprint@yahoogroups.com
From: nr7fcall@...
Date: Tue, 3 Apr 2012 23:51:04 +0000
Subject: [AT_Sprint] Re: Deaf on 15M--DEAF NO MORE!

Thanks everyone for helping with my remedial electronics abilities :) The problem is resolved, and it partly relates to operator error. Figures.

First the voltage issues. The manual that came with the radio is different than the version ATS3b1 in that the pin locations in the schematic, and the voltages in the voltage tables are different. In using the 3b1 manual (rather than the 3b manual), which I assume is really the right one, all voltages are fine. This is what happens when you mostly leave the hobby for 3 years with the radio only 80 percent finished, then come back to finish it; you get out of the loop. Thank you Stephen VE7NSD, for pointing out that from your perspective, the voltages were fine. That made me suspect there was an updated manual out there.

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And thanks Steve for responding about the voltage readings. Those comments also made me suspect something with my voltage readings was off, because in fact the radio DID work (on other bands) even with my crazy voltage readings.

I'm the world's worst trouble shooter, but I always learn from this stuff, and you guys are great for reading/commenting.

Thanks again.

Mike

NR7F

--- In AT_Sprint@yahoogroups.com, "nr7f_mike" <nr7fcall@...> wrote:

>

> Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.

>

> Is it possible that something on the main board is wrong, but affects 15M but not other bands. I've only built and tested 40M and 20M so far.

>

> I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.

>

> Any help is welcome. Thanks.

>

> Mike

> NR7F

>

8626. Re: Deaf on 15M--DEAF NO MORE!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-04 07:23:35 UTC
From: nr7f_mike
Topic: 8604 Message: 8626

Yes, Dale, getting a dead radio to work is very rewarding. Though I wouldn't complain if they always worked after I built them.

I do put these to use; mostly in the backcountry. I remember the first time I saw one at a local QRP group meeting I was floored that so much radio was in so little space. I could not believe the band coverage, power output, and size of the radio. I "needed" one (and now two) for the backpack.

Mike-NR7F

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Wonderful Mike, Being inexperienced at troubleshooting isn't a failure... only means you have a bit more time to learn it... no problem, and with thehelp that is available on the reflectors... you got it made... build away. Oh.. and don't forget to put the little guy on the air too... you can sure have fun there too.See you on the air one day.. we can do a 3-2-3-Q. Happy to hear it is working better now. You sure didn't waste this day.
>
> --... ...--
> Dale - WC7S in Wy"-A day that goes by without learning something new....Is a day wasted, indeed."
> To: AT_Sprint@yahoogroups.com
> From: nr7fcall@...
> Date: Tue, 3 Apr 2012 23:51:04 +0000
> Subject: [AT_Sprint] Re: Deaf on 15M--DEAF NO MORE!
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>
> Thanks everyone for helping with my remedial electronics abilities :) The problem is resolved, and it partly relates to operator error. Figures.
>
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>
> First the voltage issues. The manual that came with the radio is different than the version ATS3b1 in that the pin locations in the schematic, and the voltages in the voltage tables are different. In using the 3b1 manual (rather than the 3b manual), which I assume is really the right one, all voltages are fine. This is what happens when you mostly leave the hobby for 3 years with the radio only 80 percent finished, then come back to finish it; you get out of the loop. Thank you Stephen VE7NSD, for pointing out that from your perspective, the voltages were fine. That made me suspect there was an updated manual out there.
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>
>
> As far as 15M, well, it works now. I don't know if it's because I redid the torroids or because Dale WC7S comments about adjusting the trimmer caps carefully, with a signal, not just band noise made me go back and redo that part....or both. But anyway, adjusting the caps to a weak signal made a big difference. I also find that the caps are a little "peaky"...they like a pretty specific setting.
>
>
>
> And thanks Steve for responding about the voltage readings. Those comments also made me suspect something with my voltage readings was off, because in fact the radio DID work (on other bands) even with my crazy voltage readings.
>
>
>
> I'm the world's worst trouble shooter, but I always learn from this stuff, and you guys are great for reading/commenting.
>
>
>
> Thanks again.
>
>
>
> Mike
>
> NR7F

>
>
>
> --- In AT_Sprint@yahoogroups.com, "nr7f_mike" <nr7fcall@> wrote:
>
> >
>
> > Hello all: My ATS3b is totally deaf on 15M. I just put the filter board together even though this is an old radio. I would assume it is a problem with the filter board, but I've checked all components, recounted turns on the torroids, even pulled the torroids to make sure connections were good and all wires are in the right holes.
>
> >
>
> > Is it possible that something on the main board is wrong, but affects 15M but not other bands. I've only built and tested 40M and 20M so far.
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> >
>
> > I did notice that adjusting the spacing on LF1 LF2 do not affect power output on the 15M board, which does not seem right. It sounds like a torroid issue, but I really can't find a problem there.
>
> >
>
> > Any help is welcome. Thanks.
>
> >
>
> > Mike
>
> > NR7F
>
> >
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8627. FOX: FOXTRAVAGANZA!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-06 18:59:31 UTC
From: Dale Putnam
Topic: 8627 Message: 8627

The following was posted on another reflector, I didn't want anyone to miss out on the fun!!
So thank you for letting me cross post this.

Have a great day,
Dale - WC7S
http://www.qrpfoxhunt.org

Do you miss the Fox Hunts yet?

For a reminder of what it was like, tune in next Thursday evening for the

FOXTRAVAGANZA!, traditional celeabration of the recently concluded Fox Hunt

season.

The FOXTRAVAGANZA! will take place on Thursday April 12th, just like a normal

Fox Hunt, sort of. It will start and end at the usual local times (0100Z -

0230Z), and the Foxes will operate somewhere within 10KHz of the QRP frequency.

But get this-- ALL of the Foxes, the Alternates, and Committee members can

call CQ FOX, on either 40M or 80M or both. An hour and a half of furious fun,

with no rules as such....

The Foxes won't expect to work as many Hounds as in a normal hunt, but the

Hounds should expect to work a LOT more Foxes!

Good Luck! And may the Fox be with you.

73 DE ET, N1FN

8628. Re: [AT_Sprint] FOX: FOXTRAVAGANZA!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-06 19:29:41 UTC
From: Johnny Matlock
Topic: 8627 Message: 8628

COOL!!!
We should be in Branson, Mo. or near there for the 4 SQRP Ozarkcon convention.
I will be sure to include a radio and some sloper wire!!!
May not burn up the Ozone, but it still should be FUN!!
72 CUL
Johnny AC0BQ

On Fri, Apr 6, 2012 at 1:59 PM, Dale Putnam <daleputnam@...> wrote:

> **
>
>
> The following was posted on another reflector, I didn't want anyone to
> miss out on the fun!!
> So thank you for letting me cross post this.
>
> Have a great day,
> Dale - WC7S
> http://www.qrpfoxhunt.org
>
>
>
>
>
>
> Do you miss the Fox Hunts yet?
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> Hounds should expect to work a LOT more Foxes!

>
> Good Luck! And may the Fox be with you.
>
> 73 DE ET, N1FN
>
>
>
>

8629. Re: [AT_Sprint] FOX: FOXTRAVAGANZA!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-06 19:48:16 UTC
From: Wilford D Lindsey
Topic: 8627 Message: 8629

Johnny:

Uh-Oh!....You've truly become an obsessed Fox Hunter. Means you done got yoreself nipped whenever them-thar slippery critters was 'a-runnin' fer their lives in thuh 40- er mebbe thuh 80-aker woods. Yessir! So you-in's got yerself a BIIIIGGGG problem.....lack way tew mini of us mini ole timers ha-av = we's awl got infected fer life, fer shur.

SO.....Be sure you know the closest hospital tew wharebber yawl will 'a be stayin' at.....jes in case. Ann yew mite consider buyin' one uh them-thar Medic-Alert bracelet tuh ware, jes in case.

Them's my thawts. Ann reel gud luck tew ya.

73,
Doc/k0EvZ Poppa Fox
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: Johnny Matlock <jomatlock@gmail.com>
Sender: AT_Sprint@yahoogroups.com
Date: Fri, 6 Apr 2012 14:29:41
To: <AT_Sprint@yahoogroups.com>
Reply-To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] FOX: FOXTRAVAGANZA!

COOL!!!
We should be in Branson, Mo. or near there for the 4 SQRP Ozarkcon convention.
I will be sure to include a radio and some sloper wire!!!
May not burn up the Ozone, but it still should be FUN!!
72 CUL
Johnny AC0BQ

On Fri, Apr 6, 2012 at 1:59 PM, Dale Putnam <daleputnam@hotmail.com> wrote:

> **
>
>
> The following was posted on another reflector, I didn't want anyone to
> miss out on the fun!!
> So thank you for letting me cross post this.
>
> Have a great day,
> Dale - WC7S
> http://www.qrpfoxhunt.org
>
>

>
>
>
>
> Do you miss the Fox Hunts yet?
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> The Foxes won't expect to work as many Hounds as in a normal hunt, but the
> Hounds should expect to work a LOT more Foxes!
>
> Good Luck! And may the Fox be with you.
>
> 73 DE ET, N1FN
>
>
>
>

8630. ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-06 20:54:24 UTC
From: kb2sdrjay
Topic: 8630 Message: 8630

Hello,

I have been trying to play with the ATS-3b and PSK-31. I have created the simple interface and I am able to tx with my Pocket PC (PPC-6700). I initially tried to setup the radio using another radio (ic-703) and computer and noticed that on the receive the radio was much lower(ic-703). I was unable to simply adjust the offset to get the two radios to talk. I eventually broke down and redid the reference oscillator and lo frequency trim adjustment. Still the offset was way too low. I had to adjust the CT1 and I was able to get the two radios talking. But the passband shifted to 1150. Is this normal or am I way off. I followed the directions in the ATS3b.1_Errata. Also the offset is now set at 1183. Any help would be appreciated.

also, I am not the original owner of the radio.

73
Jason
KB2SDR

8631. psk

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-06 22:02:31 UTC
From: charles
Topic: 8631 Message: 8631

I was only able to get close but not actually right on freq. See my youtube page...73de chas ai4ot

8632. psk

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-06 22:09:55 UTC
From: charles
Topic: 8631 Message: 8632

I was only able to get close but not actually right on freq. See my youtube page...73de chas ai4ot

8633. Re: [AT_Sprint] FOX: FOXTRAVAGANZA!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-06 23:27:56 UTC
From: Johnny Matlock
Topic: 8627 Message: 8633

Yep I am afraid this is True DOC!
Thanks for the heads up!
Good luck to you also.
72
Johnny AC0BQ

On Fri, Apr 6, 2012 at 2:48 PM, Wilford D Lindsey <QRPNUT5@...> wrote:

> **
>
>
> ** Johnny:
>
> Uh-Oh!....You've truly become an obsessed Fox Hunter. Means you done got
> yoreself nipped whenever them-thar slippery critters was 'a-runnin' fer
> their lives in thuh 40- er mebbe thuh 80-aker woods. Yessir! So you-in's
> got yerself a BIIIIGGGG problem.....lack way tew mini of us mini ole
> timers ha-av = we's awl got infected fer life, fer shur.
>
> SO.....Be sure you know the closest hospital tew wharebber yawl will 'a be
> stayin' at.....jes in case. Ann yew mite consider buyin' one uh them-thar
> Medic-Alert bracelet tuh ware, jes in case.
>
> Them's my thawts. Ann reel gud luck tew ya.
>
> 73,
> Doc/k0EvZ Poppa Fox
> Sent from my Verizon Wireless BlackBerry
> ----------
> *From: * Johnny Matlock <jomatlock@...>
> *Sender: * AT_Sprint@yahoogroups.com
> *Date: *Fri, 6 Apr 2012 14:29:41 -0500
> *To: *<AT_Sprint@yahoogroups.com>
> *ReplyTo: * AT_Sprint@yahoogroups.com
> *Subject: *Re: [AT_Sprint] FOX: FOXTRAVAGANZA!
>
>
>
> COOL!!!
> We should be in Branson, Mo. or near there for the 4 SQRP Ozarkcon
> convention.
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> Johnny AC0BQ

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> On Fri, Apr 6, 2012 at 1:59 PM, Dale Putnam <daleputnam@...>wrote:
>
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>> The following was posted on another reflector, I didn't want anyone to
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>> So thank you for letting me cross post this.
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>> Have a great day,
>> Dale - WC7S
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>> Do you miss the Fox Hunts yet?
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>> call CQ FOX, on either 40M or 80M or both. An hour and a half of furious
>> fun,
>> with no rules as such....
>>
>> The Foxes won't expect to work as many Hounds as in a normal hunt, but
>> the
>> Hounds should expect to work a LOT more Foxes!
>>
>> Good Luck! And may the Fox be with you.
>>
>> 73 DE ET, N1FN
>>
>>
>>
>

>

8634. Re: [AT_Sprint] ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 01:51:34 UTC
From: Steven Weber
Topic: 8630 Message: 8634

You need to set the offset in Pocketdigi to match the rig, not the other way around.

The BFO (CT1) should be adjusted for optimum audio for the receiver. This will result in a side tone of about 600 Hz.

Now start Pocketdigi, and click on "tools" > setup > TRX control. When you get the TRX control window to open, click the button "ATS3/manchester" and under that is a place to enter an offset frequency. Figuring out exactly what frequency you need to enter there is the tricky part and can only really be done with another PSK set up near by. See how far off you are and make the correction to the pocketdigi setting and repeat until you get the Rx and Tx frequencies to match up.

This setting may have to be periodically checked, due to drift in the BFO trimmer.

72, Steve KD1JV

> I have been trying to play with the ATS-3b and PSK-31. I have created the
> simple interface and I am able to tx with my Pocket PC (PPC-6700). I
> initially tried to setup the radio using another radio (ic-703) and
> computer and noticed that on the receive the radio was much lower(ic-703).
> I was unable to simply adjust the offset to get the two radios to talk. I
> eventually broke down and redid the reference oscillator and lo frequency
> trim adjustment. Still the offset was way too low. I had to adjust the CT1
> and I was able to get the two radios talking. But the passband shifted to
> 1150. Is this normal or am I way off. I followed the directions in the
> ATS3b.1_Errata. Also the offset is now set at 1183. Any help would be
> appreciated.
>
>

8635. Re: ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 03:59:08 UTC
From: kb2sdrjay
Topic: 8630 Message: 8635

"Figuring out exactly
what frequency you need to enter there is the tricky part and can only really be done with another PSK set up near by."

Steve,

Thanks for the reply. I initially tried that and was unsuccessful. I set everything up per the manual.

1. Set the marker on the Pocketdigi waterfall to be exactly 600 Hz. (tap the screen just above the frequency
ruler, use the waterfall zoom in the tools menu to get better resolution)
2. In the Channels sub menu, verify Pocketdigi is in BPSK31 mode and AFC is turned off
3. Set the ATS-3B to transmit by clicking on the lightning bolt to the right of CAT. Note that when
transmitting, the side tone reproduces the modulation tones and can be heard in the headphones.
4. Find the ATS-3B signal with the other receiver and select the signal on the waterfall of the PSK program
connected to that receiver. Its AFC should also be turned off.
5. Return to receive mode on the Pocketdigi by clicking the lightning bolt again.

**** Picked the signal up on the ic-817 at 21.059.42 while ATS-3B was transmitting at 21.060.****

6. Transmit a signal with the other rig.
7. Tune the transmit frequency of the rig transmitting to the ATS-3B so that the signal is lined up at 600 Hz
on the Pocketdigi waterfall.

**** Picked up the signal on the ATS-3B at 21.060.0 ****

8. Switch back to receive on the other rig and transmit again with the ATS-3B. If the ATS-3B signal is now
lower than what it was initially, you will have to increase the offset in the Pocketdigi offset setting. If it is
higher, you will have to decrease the offset setting. The frequency scale on the waterfall will not have
enough resolution to tell exactly how much you will have to change the offset value by, but you can get a
rough idea.

**** The Signal was higher, I clicked on it and it was roughly 649, so I subtracted 49 from the 577 to get 528 and it was spot on this round.****

Am I going in the right direction????

I appreciate your help!

Jason

8636. Re: [AT_Sprint] Re: ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 04:38:37 UTC
From: Steven Weber
Topic: 8630 Message: 8636

If it was spot on that time, I would think you have it. Steve.

>
> **** The Signal was higher, I clicked on it and it was roughly 649, so I
> subtracted 49 from the 577 to get 528 and it was spot on this round.****
>
> Am I going in the right direction????

8637. Re: ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 05:06:24 UTC
From: Vojtech
Topic: 8630 Message: 8637

Jason,

The sequence described in the manual is what I proposed to Steve and it is an overkill. There is a much simpler solution, much more robust.

1) Get yourself an exact audio frequency meter. A sound card spectrogram application like the DL4YHF's Spectrum Lab will fit the bill.

2) Switch the ATS-3b into BFO calibration mode and turn the BFO trimmer to adjust the audio frequency to exactly 625Hz if using the external PSK31 decoder board. The exact frequency is not important if using PocketDigi, but it shall close to 600Hz. Measure the BFO audio frequency with the precision of 1Hz.

3) After the BFO is set, launch PocketDigi and enter the same audio offset frequency you measured in step 2.

73, Vojtech OK1IAK, AB2ZA

8638. Re: ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 12:33:41 UTC
From: kb2sdrjay
Topic: 8630 Message: 8638

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> If it was spot on that time, I would think you have it. Steve.
>
> >
> > **** The Signal was higher, I clicked on it and it was roughly 649, so I
> > subtracted 49 from the 577 to get 528 and it was spot on this round.****
> >
> > Am I going in the right direction????

Spot on might have been the wrong choice of words. I was still RXing in the wrong freq with the 817. As long as I am on the right path I will keep playing.

Thank you

8639. NAQCC Sprint Tuesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 15:01:01 UTC
From: NAQCC
Topic: 2905 Message: 8639

NAQCC Sprint Tuesday night!

Our April sprint is this coming Tuesday evening local time (April 10, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Wednesday April 11, 0030-0230Z in all cases. Note the Z time change because of going to Daylight Savings time on March 11, 2012.

I will refer you to the proper URL:

http://naqcc.info/sprint201203.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX. A Certificate for top score in the GAIN antenna category. Finally there is one more award - a certificate to the highest score from a first-time participant.

Prizes: A prize of a set of bug/paddle handles or a K1/K2 knob insert donated by master woodworker Gregg WB8LZG is awarded for each sprint to the winner of a random drawing among all participants. Previous winners are not eligible.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 5,970+ members in: All 50 States - 9 VE Provinces - 90 Countries. Just sign up on the NAQCC website (http://naqcc.info/) and you will receive a handsome certificate, with your membership number which is good for life.

This month the NAQCC European Chapter will also hold their monthly sprint on April 11th from 1800 to 2000 UTC. Rules on their websie at: naqcc-eu.org/

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

8640. New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 21:43:58 UTC
From: AT_Sprint@yahoogroups.com
Topic: 154 Message: 8640

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the AT_Sprint
group.

File : /MTR manual.pdf
Uploaded by : kd1jv <steve.kd1jv@...>
Description : Mountain topper manual 4-7-12

You can access this file at the URL:
http://groups.yahoo.com/group/AT_Sprint/files/MTR%20manual.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

kd1jv <steve.kd1jv@...>

8641. MTR - almost ready!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 21:57:14 UTC
From: Steven
Topic: 8641 Message: 8641

Gang,

I just uploaded the MTR manual to the files section of the group. I've decided not to send a CD with each kit, so you will have to down load the manual. Not sending a CD will save me a bunch of time (it takes a few minutes to burn a CD and multiply by 150 ends up most of a day!)I can also now use some padded envelope mailers I have which the CD is too big to fit into.

I *think* I've found all the typos and omissions in the manual, but there well could be one or two lingering in there, but shouldn't be anything too major or confusing.

I have 89 kits pretty much finished and will be able to start selling and sending them out soon. Since this took longer than expected to get done, we're going to skip over the beta build part and just go for it.

I would like to request when ordering does start (Monday?) that those who indicated they would build it right away order first, along with those who are going to need one soon for SOTA trips, as we're starting to get into spring time.

Those of you who are just going to add this to the stack of unbuilt kits you already have can wait a little bit and see what's left - okay?

72 Steve KD1JV

8642. Re: [AT_Sprint] MTR - almost ready!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 22:07:42 UTC
From: John Shadle
Topic: 8641 Message: 8642

What time on Monday will the order-taking resume, Steve? Excited for this one!
On Apr 7, 2012 4:57 PM, "Steven" <steve.kd1jv@...> wrote:

> **
>
>
> Gang,
>
> I just uploaded the MTR manual to the files section of the group. I've
> decided not to send a CD with each kit, so you will have to down load the
> manual. Not sending a CD will save me a bunch of time (it takes a few
> minutes to burn a CD and multiply by 150 ends up most of a day!)I can also
> now use some padded envelope mailers I have which the CD is too big to fit
> into.
>
> I *think* I've found all the typos and omissions in the manual, but there
> well could be one or two lingering in there, but shouldn't be anything too
> major or confusing.
>
> I have 89 kits pretty much finished and will be able to start selling and
> sending them out soon. Since this took longer than expected to get done,
> we're going to skip over the beta build part and just go for it.
>
> I would like to request when ordering does start (Monday?) that those who
> indicated they would build it right away order first, along with those who
> are going to need one soon for SOTA trips, as we're starting to get into
> spring time.
>
> Those of you who are just going to add this to the stack of unbuilt kits
> you already have can wait a little bit and see what's left - okay?
>
> 72 Steve KD1JV
>
>
>

8643. Re: [AT_Sprint] MTR - almost ready!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 23:19:35 UTC
From: Randy Moore
Topic: 8641 Message: 8643

I don't fit the first 2 purchaser categories, but I certainly intend to build and operate an MTR if I can get one. How long do you want folks like me to wait?

73,
Randy, KS4L

On Apr 7, 2012, at 4:57 PM, "Steven" <steve.kd1jv@...> wrote:

> ...
> I would like to request when ordering does start (Monday?) that those who indicated they would build it right away order first, along with those who are going to need one soon for SOTA trips, as we're starting to get into spring time.
>
> Those of you who are just going to add this to the stack of unbuilt kits you already have can wait a little bit and see what's left - okay?
>
> 72 Steve KD1JV
>
>

8644. Re: [AT_Sprint] MTR - almost ready!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 23:41:06 UTC
From: Steven Weber
Topic: 8641 Message: 8644

I don't know, first let me find out if I'm really ready by then...
What time on Monday will the order-taking resume, Steve? Excited for this one!

8645. I can't friggen belive it!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 23:47:15 UTC
From: Steven Weber
Topic: 8645 Message: 8645

I just fired up one of the new boards (figured I'd better try one) and wouldn't ya know it? I somehow dropped another track. The gremlins must come in after I go to bed and mess with the files, because that track was there on the first pass and should have still been there this time!

Well, the good news is this one is easy to fix, just needs a short piece of lead clipping to jumper between the ends of two resistors.

But that means I have to fix the instructions, so if you haven't down loaded the manual yet, wait a little bit. I'll try to include the fix later tonight.

72, Steve KD1JV

8646. Re: [AT_Sprint] MTR - almost ready!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-07 23:49:55 UTC
From: Steven Weber
Topic: 8641 Message: 8646

Will let you all know when the first round is taken care of. I also ran out of a few parts, so I'll have to wait for those to show up before I can do the last 60 kits.
Steve

I don't fit the first 2 purchaser categories, but I certainly intend to build and operate an MTR if I can get one. How long do you want folks like me to wait?

73,
Randy, KS4L

8647. Re: [AT_Sprint] I can't friggen belive it!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-08 00:27:49 UTC
From: John Evans - N0HJ
Topic: 8645 Message: 8647

And I already printed the manual out to read tonight in prep for building. No biggy though.

72 - john - n0hj

On 4/7/2012 5:47 PM, Steven Weber wrote:
>
> I just fired up one of the new boards (figured I'd better try one) and
> wouldn't ya know it? I somehow dropped another track. The gremlins
> must come in after I go to bed and mess with the files, because that
> track was there on the first pass and should have still been there
> this time!
> Well, the good news is this one is easy to fix, just needs a short
> piece of lead clipping to jumper between the ends of two resistors.
> But that means I have to fix the instructions, so if you haven't down
> loaded the manual yet, wait a little bit. I'll try to include the fix
> later tonight.
> 72, Steve KD1JV
>

8648. Re: [AT_Sprint] MTR - almost ready!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-08 00:52:17 UTC
From: Gil WA5YKK
Topic: 8641 Message: 8648

Steve;

Thanks for the note, and since I'm one of the "buy it now and wait for months to look in the package", I'll let someone else enjoy melting solder. Eventually, with better health and fewer problems that clog up my work, I'll find out if I need that rig - then find out if anyone has built one and wants to sell their de-bugged rig.

To the group - I had a "routine left eye lens" replacement done last month, & I had to keep low on heavy activity, still have Doctor's visits to make, but my vision has improved vastly. Two months ago, I was "near sighted, no farther lens correction possible, lots of cataract damage", now I'm "far sighted, can see distance easily, have to have bifocal near vision lenses made". Everything about my being able to see SMT parts has changed, thus my "melt solder" setup has changed, too. For anyone who might be facing the same surgery, there's no problem at all, no detail of your particular set of physical circumstances is overlooked.
Thanks for the bandwidth, 73's for now,

Gil WA5YKK

On 4/7/2012 4:57 PM, Steven wrote:
>
> Gang,
>
> I just uploaded the MTR manual to the files section of the group. I've
> decided not to send a CD with each kit, so you will have to down load
> the manual. Not sending a CD will save me a bunch of time (it takes a
> few minutes to burn a CD and multiply by 150 ends up most of a day!)I
> can also now use some padded envelope mailers I have which the CD is
> too big to fit into.
>
> I *think* I've found all the typos and omissions in the manual, but
> there well could be one or two lingering in there, but shouldn't be
> anything too major or confusing.
>
> I have 89 kits pretty much finished and will be able to start selling
> and sending them out soon. Since this took longer than expected to get
> done, we're going to skip over the beta build part and just go for it.
>
> I would like to request when ordering does start (Monday?) that those
> who indicated they would build it right away order first, along with
> those who are going to need one soon for SOTA trips, as we're starting
> to get into spring time.
>
> Those of you who are just going to add this to the stack of unbuilt

> kits you already have can wait a little bit and see what's left - okay?
>
> 72 Steve KD1JV
>

8649. MTR manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-08 00:55:01 UTC
From: Steven
Topic: 8649 Message: 8649

Okay, the manual has been updated with the missing track jumper fix.
72, Steve KD1JV

8650. Re: [AT_Sprint] I can't friggen belive it!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-08 02:22:00 UTC
From: Yannick (XV4Y)
Topic: 8645 Message: 8650

Hi Steven,

That means that the (un)lucky ones who will have to wait for the second batch will get a "refined" version of the MTR...
Not everything is negative.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

Le 8 avr. 2012 à 06:47, Steven Weber a écrit :

>
>
> I just fired up one of the new boards (figured I'd better try one) and wouldn't ya know it? I somehow dropped another track. The gremlins must come in after I go to bed and mess with the files, because that track was there on the first pass and should have still been there this time!
>
> Well, the good news is this one is easy to fix, just needs a short piece of lead clipping to jumper between the ends of two resistors.
>
> But that means I have to fix the instructions, so if you haven't down loaded the manual yet, wait a little bit. I'll try to include the fix later tonight.
>
> 72, Steve KD1JV
>
>
>

8651. Re: MTR - almost ready!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-08 17:32:24 UTC
From: erehm
Topic: 8641 Message: 8651

> I would like to request when ordering does start (Monday?) that those
> who indicated they would build it right away order first...

Where (URL) do I place order?

/eric, kj7ae

8652. MTR Availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-09 19:47:58 UTC
From: Steven Bornstein
Topic: 8652 Message: 8652

I thought that today was the day that ordering will begin. I have not seen any postings. Has there been a delay?

8653. Re: [AT_Sprint] MTR Availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-09 21:47:38 UTC
From: Steven Weber
Topic: 8652 Message: 8653

>I thought that today was the day that ordering will begin. I have not seen
>any postings. Has there been a delay?

I said "Maybe Monday". Lets change that to "Some time this week". I like to have everything ready to go first and I'm almost there, but not quite. Be another day or two.

72, Steve KD1JV

8654. Re: [AT_Sprint] MTR Availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 00:45:57 UTC
From: Valveman
Topic: 8652 Message: 8654

I've come late to the game. Where can I find info on this new kit?
I didn't see it on your site Steve.

Robert

VE3RPF

From: Steven Weber <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Monday, April 9, 2012 5:47:38 PM
Subject: Re: [AT_Sprint] MTR Availability

>I thought that today was the day that ordering will begin. I have not seen
>any postings. Has there been a delay?

I said "Maybe Monday". Lets change that to "Some time this week". I like to
have everything ready to go first and I'm almost there, but not quite. Be
another day or two.

72, Steve KD1JV

8655. Re: [AT_Sprint] MTR Availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 08:41:17 UTC
From: Stephen Rapley
Topic: 8652 Message: 8655

Hi Robert,

Look for "MTR manual4812.pdf" in the files section of the AT_Sprint group. There's a solid 26 pages of info there!
Also while you're visiting the group page, you could read recent emails from Steve KD1JV about his expectations of who should place an order in the first batch of kits.

73
Stephen VK2RH

On 10/04/2012, at 10:45 AM, Valveman <valveman_6146@yahoo.com> wrote:

> I've come late to the game. Where can I find info on this new kit?
> I didn't see it on your site Steve.
>
> Robert
> VE3RPF
> From: Steven Weber <steve.kd1jv@...>
> To: AT_Sprint@yahoogroups.com
> Sent: Monday, April 9, 2012 5:47:38 PM
> Subject: Re: [AT_Sprint] MTR Availability
>
>
> >I thought that today was the day that ordering will begin. I have not seen
> >any postings. Has there been a delay?
>
> I said "Maybe Monday". Lets change that to "Some time this week". I like to
> have everything ready to go first and I'm almost there, but not quite. Be
> another day or two.
>
> 72, Steve KD1JV
>
>
>
>

8656. Re: [AT_Sprint] MTR Availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 12:12:50 UTC
From: n4wdc@va.metrocast.net
Topic: 8652 Message: 8656

All,
I'm clearly in the second wave of kits.
I haven't built the 4b, yet!
I was hoping for a good snow to keep me stranded for a few days, but that didn't happen.
Now it's Spring and the wife's gardening list is looooooong!
Looking forward to hearing about the build and then join in.
David N4WDC

8657. Re: [AT_Sprint] MTR Availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 12:42:32 UTC
From: Valveman
Topic: 8652 Message: 8657

Thank you Stephen for the info.

Robert

VE3RPF

_____
From: Stephen Rapley <stephen.vk2rh@...>
To: "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
Sent: Tuesday, April 10, 2012 1:41:17 AM
Subject: Re: [AT_Sprint] MTR Availability

Hi Robert,

Look for "MTR manual4812.pdf" in the files section of the AT_Sprint group. There's a solid 26 pages of info there!
Also while you're visiting the group page, you could read recent emails from Steve KD1JV about his expectations of who should place an order in the first batch of kits.

73
Stephen VK2RH

On 10/04/2012, at 10:45 AM, Valveman <valveman_6146@...> wrote:

>I've come late to the game. Where can I find info on this new kit?
>I didn't see it on your site Steve.
>
>Robert
>
>VE3RPF
>
>_____
> From: Steven Weber <steve.kd1jv@gmail.com>
>To: AT_Sprint@yahoogroups.com
>Sent: Monday, April 9, 2012 5:47:38 PM
>Subject: Re: [AT_Sprint] MTR Availability
>
>
>
>>I thought that today was the day that ordering will begin. I have not seen
>>any postings. Has there been a delay?
>
>I said "Maybe Monday". Lets change that to "Some time this week". I like to
>have everything ready to go first and I'm almost there, but not quite. Be
>another day or two.
>
>72, Steve KD1JV

>
>
>
>

8658. RE: [AT_Sprint] MTR Availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 13:54:05 UTC
From: Don Hinds
Topic: 8652 Message: 8658

--->> David N4WDC wrote, "I'm clearly in the second wave of kits."

David,

Don't tell my wife, or my boss, but I've scheduled two days off of work just to get my MTR built, if I'm lucky enough to snag one.

The last weekend of the month I'm going camping with my sons and their Boy Scout Troop in North Georgia and have allocated space in my backpack to take the radio for a test drive.

I can't wait!

73,
Don
WD4ON

8659. Re: ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 14:24:59 UTC
From: kb2sdrjay
Topic: 8630 Message: 8659

Vojtech,

"adjust the audio frequency to exactly 625Hz if using the external PSK31 decoder board."

Do you mean the simple interface??? That is what I am using. I am at work and have the tools here to calibrate the radio. I have set it for 10Mhz and set the BFO trimmer to as close to 625Hz as possible (624.7). I will try again tonight to see if I can get my 703 and ATS-3B talking. The procedure wasn't working for me this weekend, I was only able to get the two radios to talk by shifting the bfo to 1200Hz. It almost appears the radio is txing too low.

"After the BFO is set, launch PocketDigi and enter the same audio offset frequency you measured in step 2."

So I will enter 624.7 into pocketdigi and that should get me takling with the other radio set to the same frequency at 600Hz on the wterfall?

I will give it a shot after work, hopefully all will go well.

Jason

--- In AT_Sprint@yahoogroups.com, "Vojtech" <bubnikv@...> wrote:
>
> Jason,
>
> The sequence described in the manual is what I proposed to Steve and it is an overkill. There is a much simpler solution, much more robust.
>
> 1) Get yourself an exact audio frequency meter. A sound card spectrogram application like the DL4YHF's Spectrum Lab will fit the bill.
>
> 2) Switch the ATS-3b into BFO calibration mode and turn the BFO trimmer to adjust the audio frequency to exactly 625Hz if using the external PSK31 decoder board. The exact frequency is not important if using PocketDigi, but it shall close to 600Hz. Measure the BFO audio frequency with the precision of 1Hz.
>
> 3) After the BFO is set, launch PocketDigi and enter the same audio offset frequency you measured in step 2.
>
> 73, Vojtech OK1IAK, AB2ZA
>

8660. Re: [AT_Sprint] Re: ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 14:41:23 UTC
From: Vojtěch Bubník
Topic: 8630 Message: 8660

> "adjust the audio frequency to exactly 625Hz if using the external PSK31 decoder
> board."
>
> Do you mean the simple interface???

Yes.

> That is what I am using. I am at work and
> have the tools here to calibrate the radio. I have set it for 10Mhz and set the
> BFO trimmer to as close to 625Hz as possible (624.7).

That is good enough.

> So I will enter 624.7 into pocketdigi and that should get me takling with the
> other radio set to the same frequency at 600Hz on the wterfall?

Yes.

> I will try again tonight
> to see if I can get my 703 and ATS-3B talking. The procedure wasn't working for
> me this weekend, I was only able to get the two radios to talk by shifting the
> bfo to 1200Hz. It almost appears the radio is txing too low.

You need to move the arrow on the PocketDigi waterfall to 600Hz of course. The PocketDigi software listens and transmits where the arrow points to. I think it may point to 1200Hz by default. The arrow lets you tune the PSK31 signals inside the ATS-3b crystal filter passband, so you may "point and click" tune in around 500Hz subband without having to touch the ATS-3b tuning buttons.

Vojtech

8661. Re: [AT_Sprint] Re: ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 18:47:55 UTC
From: Bill Noyce
Topic: 8630 Message: 8661

On Apr 10, 2012 10:25 AM, "kb2sdrjay" <kb2sdrjay@...> wrote:
>
> So I will enter 624.7 into pocketdigi and that should get me takling with the other radio set to the same frequency at 600Hz on the wterfall?
>

Yes, but at this point it doesn't matter exactly what frequency (RF or AF) the other radio is set to. You're just trying to adjust the ATS3b so it transmits on the same frequency it receives on, so you and your QSO partner don't go walking up the band. As long as the ATS3b signal appears on the other radio's waterfall at the same spot that radio was sending, you've successfully completed this step. If that's true but the dial settings don't agree, that's a matter for the RF calibration. Good luck!
-- Bill, AB1AV

8662. Re: ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 19:00:23 UTC
From: kb2sdrjay
Topic: 8630 Message: 8662

Bill,

What would I have to do if that happens to be the case? Is it a matter of running through the calibration procedure again?

--- In AT_Sprint@yahoogroups.com, Bill Noyce <WBNoyce@...> wrote:
>
> On Apr 10, 2012 10:25 AM, "kb2sdrjay" <kb2sdrjay@...> wrote:
> >
> > So I will enter 624.7 into pocketdigi and that should get me takling with
> the other radio set to the same frequency at 600Hz on the wterfall?
> >
>
> Yes, but at this point it doesn't matter exactly what frequency (RF or AF)
> the other radio is set to. You're just trying to adjust the ATS3b so it
> transmits on the same frequency it receives on, so you and your QSO partner
> don't go walking up the band. As long as the ATS3b signal appears on the
> other radio's waterfall at the same spot that radio was sending, you've
> successfully completed this step. If that's true but the dial settings
> don't agree, that's a matter for the RF calibration. Good luck!
> -- Bill, AB1AV
>

8663. Re: MTR Availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 19:34:26 UTC
From: russellhulett
Topic: 8652 Message: 8663

Maybe this has already been addressed, but didn't notice...

I'd like to buy an MTR kit, but am not one of the SOTA folks who need one soonest. Steve, will you be posting here when coast is clear for people like me to place an order?

72, Curt KB5JO

8665. Re: ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 22:33:39 UTC
From: kb2sdrjay
Topic: 8630 Message: 8665

Ok,

I found something interesting it appears the ATS-3B is not displaying the right frequency. I keyed the radio up and tuned my ic-703 until I was able to receive the psk signal on the spectrum meter. The rig says it is txing on 21.059.45 at 600Hz but the ATS-3B display says 21.060.0. But with the 703 tuned to 21.059.45 I am able to communicate. what am I missing here? What calibration do I need to do to get it on freq?

--- In AT_Sprint@yahoogroups.com, "kb2sdrjay" <kb2sdrjay@...> wrote:
>
> Bill,
>
> What would I have to do if that happens to be the case? Is it a matter of running through the calibration procedure again?
>
> --- In AT_Sprint@yahoogroups.com, Bill Noyce <WBNoyce@> wrote:
> >
> > On Apr 10, 2012 10:25 AM, "kb2sdrjay" <kb2sdrjay@> wrote:
> > >
> > > So I will enter 624.7 into pocketdigi and that should get me takling with
> > the other radio set to the same frequency at 600Hz on the wterfall?
> > >
> >
> > Yes, but at this point it doesn't matter exactly what frequency (RF or AF)
> > the other radio is set to. You're just trying to adjust the ATS3b so it
> > transmits on the same frequency it receives on, so you and your QSO partner
> > don't go walking up the band. As long as the ATS3b signal appears on the
> > other radio's waterfall at the same spot that radio was sending, you've
> > successfully completed this step. If that's true but the dial settings
> > don't agree, that's a matter for the RF calibration. Good luck!
> > -- Bill, AB1AV
> >
>

8666. Re: ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-10 23:40:18 UTC
From: kb2sdrjay
Topic: 8630 Message: 8666

ok
I ran through all the modules and got the displayed and actual frequencies:
Display Actual
80M 3.560.0 3.559.42
40M 7.030.0 7.029.43
30M 10.110.0 10.109.44
20M 14.060.0 14.059.45
17M 18.070.0 18.069.46
15M 21.060.0 21.059.47

--- In AT_Sprint@yahoogroups.com, "kb2sdrjay" <kb2sdrjay@...> wrote:
>
> Ok,
>
> I found something interesting it appears the ATS-3B is not displaying the right frequency. I keyed the radio up and tuned my ic-703 until I was able to receive the psk signal on the spectrum meter. The rig says it is txing on 21.059.45 at 600Hz but the ATS-3B display says 21.060.0. But with the 703 tuned to 21.059.45 I am able to communicate. what am I missing here? What calibration do I need to do to get it on freq?
>
> --- In AT_Sprint@yahoogroups.com, "kb2sdrjay" <kb2sdrjay@> wrote:
> >
> > Bill,
> >
> > What would I have to do if that happens to be the case? Is it a matter of running through the calibration procedure again?
> >
> > --- In AT_Sprint@yahoogroups.com, Bill Noyce <WBNoyce@> wrote:
> > >
> > > On Apr 10, 2012 10:25 AM, "kb2sdrjay" <kb2sdrjay@> wrote:
> > > >
> > > > So I will enter 624.7 into pocketdigi and that should get me takling with
> > > the other radio set to the same frequency at 600Hz on the wterfall?
> > > >
> > >
> > > Yes, but at this point it doesn't matter exactly what frequency (RF or AF)
> > > the other radio is set to. You're just trying to adjust the ATS3b so it
> > > transmits on the same frequency it receives on, so you and your QSO partner
> > > don't go walking up the band. As long as the ATS3b signal appears on the
> > > other radio's waterfall at the same spot that radio was sending, you've
> > > successfully completed this step. If that's true but the dial settings
> > > don't agree, that's a matter for the RF calibration. Good luck!
> > > -- Bill, AB1AV
> > >
> >

>

8667. Re: ATS-3B Psk-31

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 00:16:57 UTC
From: kb2sdrjay
Topic: 8630 Message: 8667

Looks like it is working, had a nice qso with Don, N0BIV in MO.

--- In AT_Sprint@yahoogroups.com, "kb2sdrjay" <kb2sdrjay@...> wrote:
>
> ok
> I ran through all the modules and got the displayed and actual frequencies:
> Display Actual
> 80M 3.560.0 3.559.42
> 40M 7.030.0 7.029.43
> 30M 10.110.0 10.109.44
> 20M 14.060.0 14.059.45
> 17M 18.070.0 18.069.46
> 15M 21.060.0 21.059.47
>
>
>
> --- In AT_Sprint@yahoogroups.com, "kb2sdrjay" <kb2sdrjay@> wrote:
> >
> > Ok,
> >
> > I found something interesting it appears the ATS-3B is not displaying the right frequency. I keyed the radio up and tuned my ic-703 until I was able to receive the psk signal on the spectrum meter. The rig says it is txing on 21.059.45 at 600Hz but the ATS-3B display says 21.060.0. But with the 703 tuned to 21.059.45 I am able to communicate. what am I missing here? What calibration do I need to do to get it on freq?
> >
> > --- In AT_Sprint@yahoogroups.com, "kb2sdrjay" <kb2sdrjay@> wrote:
> > >
> > > Bill,
> > >
> > > What would I have to do if that happens to be the case? Is it a matter of running through the calibration procedure again?
> > >
> > > --- In AT_Sprint@yahoogroups.com, Bill Noyce <WBNoyce@> wrote:
> > > >
> > > > On Apr 10, 2012 10:25 AM, "kb2sdrjay" <kb2sdrjay@> wrote:
> > > > >
> > > > > So I will enter 624.7 into pocketdigi and that should get me takling with
> > > > the other radio set to the same frequency at 600Hz on the wterfall?
> > > > >
> > > >
> > > > Yes, but at this point it doesn't matter exactly what frequency (RF or AF)
> > > > the other radio is set to. You're just trying to adjust the ATS3b so it
> > > > transmits on the same frequency it receives on, so you and your QSO partner
> > > > don't go walking up the band. As long as the ATS3b signal appears on the

> > > > other radio's waterfall at the same spot that radio was sending, you've
> > > > successfully completed this step. If that's true but the dial settings
> > > > don't agree, that's a matter for the RF calibration. Good luck!
> > > > -- Bill, AB1AV
> > > >
> > >
> >
>

8668. MTR - good to go.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 04:58:40 UTC
From: Steven
Topic: 8668 Message: 8668

Hey Gang,

Time to get the show on the road!

Those of you who want to build a MTR right away, or want one for SOTA, or just want one cuz it's so darn cute, go to the order page here:

http://www.qsl.net/kd1jv/MTR/MTRorder.htm

This rig was a bit of a struggle, but in the end, it all worked out really nice.

72, Steve KD1JV

8669. Re: MTR - good to go.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 09:14:04 UTC
From: David
Topic: 8668 Message: 8669

Thanks Steve, ordered mine already and as soon as it arrives in the post I'll get started on the construction.
All the best, Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Hey Gang,
>
> Time to get the show on the road!
>
> Those of you who want to build a MTR right away, or want one for SOTA, or just want one cuz it's so darn cute, go to the order page here:
>
> http://www.qsl.net/kd1jv/MTR/MTRorder.htm
>
> This rig was a bit of a struggle, but in the end, it all worked out really nice.
>
> 72, Steve KD1JV
>

8670. MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 13:34:46 UTC
From: Jerry
Topic: 8670 Message: 8670

So cute....

hoping W4CCV and K4BX will think so too

and join in the fun that one creative dude,

KD1JV, keeps coming to make this hobby so much more....

these guys will help me with QSL'ing for my ops

from YI9EO 10/11-6/12.

Over 4000 Q's, over 100 DXCC entities with

K-3 and wire in mulberry tree from Sulaymaniyah.

The tuner is an amp'ed up ALT (also a KD1JV

creation).

Thanks again es 73, Steve and gang....

Jerry N4EO/YI9EO

8671. RE: [AT_Sprint] MTR - good to go.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 13:40:31 UTC
From: James Rodenkirch
Topic: 8668 Message: 8671

Steve: never saw the option, at the order page, to specify bands...are the two bands determined at build time? I ordered two kits, one for Stu, KI6J, and I - both SOTA activators...thanks, Buddy!

Oh - see ya at FDIM....first time for me to go and excited about putting faces to names. Hi Hi

72, Jim Rodenkirch, K9JWV

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Wed, 11 Apr 2012 04:58:40 +0000
Subject: [AT_Sprint] MTR - good to go.

Hey Gang,

Time to get the show on the road!

Those of you who want to build a MTR right away, or want one for SOTA, or just want one cuz it's so darn cute, go to the order page here:

http://www.qsl.net/kd1jv/MTR/MTRorder.htm

This rig was a bit of a struggle, but in the end, it all worked out really nice.

72, Steve KD1JV

8672. Steve

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 13:52:54 UTC
From: nicehouse101
Topic: 8672 Message: 8672

I cant find the MTR manual at the old URL.
Can you repost it please.

8673. Re: [AT_Sprint] Steve

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 13:56:15 UTC
From: John Shadle
Topic: 8672 Message: 8673

I believe the manual is in the Files section of the Yahoo group.

-john W4PAH
Madison, WI

On Wed, Apr 11, 2012 at 9:52 AM, nicehouse101 <nicehouse101@...>wrote:

> **
>
>
> I cant find the MTR manual at the old URL.
> Can you repost it please.
>
>
>

8674. Re: [AT_Sprint] Steve

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 14:00:41 UTC
From: Paul Mateer
Topic: 8672 Message: 8674

It's here:
http://f1.grp.yahoofs.com/v1/UICFT55i0AuXSfDXwZQV7rsxHf6ImO2eqoBGDxhcz0BEyprj5AebUe9o_DLqbOC_6JEDpHlaDpxS0SU0NwUCl1OwPqY/MTR%20manual4812.pdf

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8675. Re: [AT_Sprint] Steve

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 14:02:18 UTC
From: nicehouse101@yahoo.com
Topic: 8672 Message: 8675

I found it..... Thank you.73

From: Paul Mateer <paul.aa9gg@...>
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, April 11, 2012 7:00 AM
Subject: Re: [AT_Sprint] Steve

It's here:
http://f1.grp.yahoofs.com/v1/UICFT55i0AuXSfDXwZQV7rsxHf6ImO2eqoBGDxhcz0BEyprj5AebUe9o_DLqbOC_6JEDpHlaDpxS0SU0NwUCl1OwPqY/MTR%20manual4812.pdf

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8676. Re: [AT_Sprint] MTR - good to go.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 15:32:47 UTC
From: w9ya
Topic: 8668 Message: 8676

Yeah I ordered mine without specifying which bands too .....

Uh oh !!

- Bob
w9ya

On Wed, Apr 11, 2012 at 7:40 AM, James Rodenkirch <rodenkirch_llc@msn.com>wrote:

> **
>
>
> Steve: never saw the option, at the order page, to specify bands...are
> the two bands determined at build time? I ordered two kits, one for Stu,
> KI6J, and I - both SOTA activators...thanks, Buddy!
>
> Oh - see ya at FDIM....first time for me to go and excited about putting
> faces to names. Hi Hi
>
> 72, Jim Rodenkirch, K9JWV
>
>
>
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: steve.kd1jv@...
> Date: Wed, 11 Apr 2012 04:58:40 +0000
> Subject: [AT_Sprint] MTR - good to go.
>
>
>
> Hey Gang,
>
> Time to get the show on the road!
>
> Those of you who want to build a MTR right away, or want one for SOTA, or
> just want one cuz it's so darn cute, go to the order page here:
>
> http://www.qsl.net/kd1jv/MTR/MTRorder.htm
>
> This rig was a bit of a struggle, but in the end, it all worked out really
> nice.
>
> 72, Steve KD1JV
>

>
>
>

8677. Re: [AT_Sprint] MTR - good to go.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 15:42:15 UTC
From: John Shadle
Topic: 8668 Message: 8677

I don't want to put words in his mouth, but I'm guessing he will include the capacitors and resistors for whichever bands you want (40, 30, 20) and you choose at the time of the build--not at time of ordering. It's only a few different parts, so it's probably easier for him to put together the "full" kit than build kits on an a la carte basis.

The manual doesn't show 80m as an option in the build, but it does show it on the front page of the manual as a possibility. It looks like you can choose 2 of the 3 possible bands. I'm going with 40 and 20.

My guess.
-john W4PAH
Madison, WI

On Wed, Apr 11, 2012 at 11:32 AM, w9ya <w9ya@...> wrote:

> **
>
>
> Yeah I ordered mine without specifying which bands too .....
>
> Uh oh !!
>
> - Bob
> w9ya
>
>
> On Wed, Apr 11, 2012 at 7:40 AM, James Rodenkirch <rodenkirch_llc@...>wrote:
>
>> **
>>
>>
>> Steve: never saw the option, at the order page, to specify bands...are
>> the two bands determined at build time? I ordered two kits, one for Stu,
>> KI6J, and I - both SOTA activators...thanks, Buddy!
>>
>> Oh - see ya at FDIM....first time for me to go and excited about putting
>> faces to names. Hi Hi
>>
>> 72, Jim Rodenkirch, K9JWV
>>
>

8678. Re: [AT_Sprint] Steve

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 14:08:07 UTC
From: Scott Zastoupil
Topic: 8672 Message: 8678

keep in mind that link will likely expire.

Scott, KB0KFX

From: Paul Mateer <paul.aa9gg@...>
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, April 11, 2012 9:00 AM
Subject: Re: [AT_Sprint] Steve

It's here:
http://f1.grp.yahoofs.com/v1/UICFT55i0AuXSfDXwZQV7rsxHf6ImO2eqoBGDxhcz0BEyprj5AebUe9o_DLqbOC_6JEDpHlaDpxS0SU0NwUCl1OwPqY/MTR%20manual4812.pdf

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8679. MTR Manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 17:03:18 UTC
From: Steven Bornstein
Topic: 8679 Message: 8679

Could someone point me to the link to the MTR manual. I can't seem to find it. I tried the previous posting but no joy.

8680. Re: [AT_Sprint] MTR Manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 17:09:14 UTC
From: Michael Harnage
Topic: 8679 Message: 8680

http://groups.yahoo.com/group/AT_Sprint/files

scroll down and click on the one starting with "MTR".

-mike

----- Original Message -----
> From: Steven Bornstein <saborns@...>
> To: AT_Sprint@yahoogroups.com
> Cc:
> Sent: Wednesday, April 11, 2012 1:03 PM
> Subject: [AT_Sprint] MTR Manual
>
> Could someone point me to the link to the MTR manual. I can't seem to find
> it. I tried the previous posting but no joy.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

8681. MTR orders - that's enough for now!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 17:27:39 UTC
From: Steven Weber
Topic: 8681 Message: 8681

Wow. I was afraid to open my mail box this afternoon and man, it was full. I haven't counted all the orders, but it is 100+. Which means I better order the couple of parts I need to finish the last 60 kits, as I only have 90 ready to go right now.

Okay, lets see how many I can get to the PO before 5 pm today...

72, Steve

8682. MTR -bands

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 17:34:06 UTC
From: Steven Weber
Topic: 8682 Message: 8682

Bands -

Not to worry. You will get the parts for 40, 30 and 20. Pick any two of the three.

However, if you want 80, I will have to know and make up a 80 filter parts kit for you.

Steve

8683. Re: MTR orders - that's enough for now!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 17:34:49 UTC
From: n1rx
Topic: 8681 Message: 8683

Steve- there was no way to select bands when ordering. I assume all the cap/band select resistors values will be included?
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Wow. I was afraid to open my mail box this afternoon and man, it was full. I haven't counted all the orders, but it is 100+. Which means I better order the couple of parts I need to finish the last 60 kits, as I only have 90 ready to go right now.
>
> Okay, lets see how many I can get to the PO before 5 pm today...
>
> 72, Steve
>

8684. Re: [AT_Sprint] MTR -bands

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 17:47:24 UTC
From: w9ya
Topic: 8682 Message: 8684

Makes sense !!

On Wed, Apr 11, 2012 at 11:34 AM, Steven Weber <steve.kd1jv@...>wrote:

> **
>
>
> **
> Bands -
>
> Not to worry. You will get the parts for 40, 30 and 20. Pick any two of
> the three.
>
> However, if you want 80, I will have to know and make up a 80 filter parts
> kit for you.
>
> Steve
>
>
>

8685. MTR Production

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-11 18:59:12 UTC
From: Eric Castro (VA3AMX)
Topic: 8682 Message: 8685

Steve,

After the initial run of 150 kits you have right now, are you planing to have another batch of MTR?
I have to decide if I order one now or wait for the next batch.

72/73
Eric - VA3AMX

8686. ATS 3a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-12 00:59:09 UTC
From: asfco@nycap.rr.com
Topic: 8686 Message: 8686

After a few small problems I have my 3a up and running However I can't find the operating instructions re: exactly how to access all of the features from the 4 push buttons.
Are there any other 3a owners out there can scan a copy and email it to me? I"d like to use this next week on an upcoming trip.
Thanks
72/73
John W2GB

8687. THANKS Steve

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-12 01:10:19 UTC
From: asfco
Topic: 8687 Message: 8687

Thanks for sending the SMT stereo Jack for my ATS 3a everything is up and running now

8688. Re: [AT_Sprint] ATS 3a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-12 02:24:20 UTC
From: Bill Noyce
Topic: 8686 Message: 8688

Take a look in the group's File section: <
http://groups.yahoo.com/group/AT_Sprint/files> There's a copy of the
entire ATS3a manual, and a couple of versions of an ATS3a label that has
the directions. I can't figure out Yahoo's alphabetization rules, so keep
scrolling through until you find what you need.
-- Bill, AB1AV

On Wed, Apr 11, 2012 at 8:59 PM, <asfco@....com> wrote:

> **
>
>
> After a few small problems I have my 3a up and running However I can't
> find the operating instructions re: exactly how to access all of the
> features from the 4 push buttons.
> Are there any other 3a owners out there can scan a copy and email it to
> me? I"d like to use this next week on an upcoming trip.
> Thanks
> 72/73
> John W2GB
>
>
>

8689. Minor Confusion in MTR Doc's

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-12 04:58:42 UTC
From: Mike
Topic: 8689 Message: 8689

While getting familiar with the new MTR documentation prior to assembly, I believe I found a minor issue in the parts list. C18 and C11 appear to be swapped in the parts list on page 5.

The table on page 8 shows C18 as 22 pF (orange), and C11 as 100 pF (violet). The parts list on page 5 shows C18 as 100 pF (violet) and C11 as 22 pF (orange).

Since the schematic agrees with the values in the page 8 table, I'm guessing the page 5 parts list is incorrect.

Steve, can you verify this? Could be confusing to a new builder.
73,
Mike WA6MER

8690. FOX - EXTRAVAGANZA TONIGHT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-12 13:04:23 UTC
From: Dale Putnam
Topic: 8690 Message: 8690

The FOXHUNT EXTRAVAGANZA has been authorized to open this evening, at 0100z for 90 minutes of the best fun around.Yes, it is qrp, we don't want to cause any undo qrm to anyone. In the 40 and 80 acre woods, 10 hectors (khz) either side of the center tree (marked with either 3.560 or 7.030 by the warden). The FOXii, (all of the FOX and alternate FOX this season) will be slinking around either of the woods, for the sake of handing out pelts, jumping between the two woods, so be very alert. When you spot one,give a shot, just remember, you may only use, #5 shot, or less, while swapping RST, State, Name, and power. The summer season, (in the 20 acre wood) will be authorized by the Game Wardens (Fox Committee) later. They feel that the FOX need to take a rest. (how much rest does a FOX really need?) Good Luck to all.. and to all a GOOD HUNT!! AND thank you, Colorado QRP Club, for all your support!!

--... ...--
Dale - WC7S in Wyhttp://www.qrpfoxhunt.org

8691. RE: [QRP-L] FOX - EXTRAVAGANZA TONIGHT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-12 13:59:14 UTC
From: Dale Putnam
Topic: 8690 Message: 8691

one slight adjustment.... center of the 40 acre wood is 7.040... NOT 7.030 for the purpose of this FOXHUNT!!

--... ...--
Dale - WC7S in Wy
> From: daleputnam@...
> To: qfox@yahoogroups.com; qrp-l@....net; cq-contest@...; at_sprint@yahoogroups.com; pfr3_group@yahoogroups.com; notify-dg-qrp-plus@yahoogroups.com
> Date: Thu, 12 Apr 2012 07:04:23 -0600
> Subject: [QRP-L] FOX - EXTRAVAGANZA TONIGHT
>
>
> The FOXHUNT EXTRAVAGANZA has been authorized to open this evening, at 0100z for 90 minutes of the best fun around.Yes, it is qrp, we don't want to cause any undo qrm to anyone. In the 40 and 80 acre woods, 10 hectors (khz) either side of the center tree (marked with either 3.560 or 7.030 by the warden). The FOXii, (all of the FOX and alternate FOX this season) will be slinking around either of the woods, for the sake of handing out pelts, jumping between the two woods, so be very alert. When you spot one,give a shot, just remember, you may only use, #5 shot, or less, while swapping RST, State, Name, and power. The summer season, (in the 20 acre wood) will be authorized by the Game Wardens (Fox Committee) later. They feel that the FOX need to take a rest. (how much rest does a FOX really need?) Good Luck to all.. and to all a GOOD HUNT!! AND thank you, Colorado QRP Club, for all your support!!
>
> --... ...--
> Dale - WC7S in Wyhttp://www.qrpfoxhunt.org
> _____
> QRP-L mailing list
> Home: http://mailman.qth.net/mailman/listinfo/qrp-l
> Help: http://mailman.qth.net/mmfaq.htm
> Post: mailto:QRP-L@...
>
> This list hosted by: http://www.qsl.net
> Please help support this email list: http://www.qsl.net/donate.html

8692. RE: [AT_Sprint] FOX - EXTRAVAGANZA TONIGHT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-12 16:25:03 UTC
From: Mike Baker
Topic: 8690 Message: 8692

Dale, isn't the 40 Acre Woods center 7.040 + or - 10? Just to make sure I am not looking on the wrong property. ;>)

Mike Baker K7DD

<mailto:K7dd@...> K7dd@...

All QSO's are uploaded to LOTW and EQSL.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Thursday, April 12, 2012 6:04 AM
To: qfox@yahoogroups.com; qrp-l@...; cq-contest@...;
AT Sprint; pfr3_group@yahoogroups.com; QRP+
Subject: [AT_Sprint] FOX - EXTRAVAGANZA TONIGHT

The FOXHUNT EXTRAVAGANZA has been authorized to open this evening, at 0100z for 90 minutes of the best fun around.
Yes, it is qrp, we don't want to cause any undo qrm to anyone. In the 40 and 80 acre woods, 10 hectors (khz) either side of the
center tree (marked with either 3.560 or 7.030 by the warden). The FOXii, (all of the FOX and alternate FOX this season) will be slinking
around either of the woods, for the sake of handing out pelts, jumping between the two woods, so be very alert. When you spot one,
give a shot, just remember, you may only use, #5 shot, or less, while swapping RST, State, Name, and power.

The summer season, (in the 20 acre wood) will be authorized by the Game Wardens (Fox Committee) later. They feel that the FOX need to
take a rest. (how much rest does a FOX really need?)

Good Luck to all.. and to all a GOOD HUNT!!

AND thank you, Colorado QRP Club, for all your support!!

--... ...-- Dale - WC7S in Wy
http://www.qrpfoxhunt.org

8693. Re: [AT_Sprint] Minor Confusion in MTR Doc's

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-12 18:11:55 UTC
From: Steven Weber
Topic: 8689 Message: 8693

Yes, you are correct. The parts list should have C11 as 100 p and C18 as 22 p. If that's the only error, I did pretty good this time, hi.

Steve

> While getting familiar with the new MTR documentation prior to assembly, I
> believe I found a minor issue in the parts list. C18 and C11 appear to be
> swapped in the parts list on page 5.
>
> The table on page 8 shows C18 as 22 pF (orange), and C11 as 100 pF
> (violet). The parts list on page 5 shows C18 as 100 pF (violet) and C11 as
> 22 pF (orange).

8694. Re: [AT_Sprint] ATS 3a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-12 19:35:22 UTC
From: asfco
Topic: 8686 Message: 8694

Found it
Thanks to all that replied Its been so long since I was last here Iforgot about the file section
Thanks again guys
72/73
John W2GB
----- Original Message -----
From: Bill Noyce
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, April 11, 2012 10:24 PM
Subject: Re: [AT_Sprint] ATS 3a

Take a look in the group's File section: <http://groups.yahoo.com/group/AT_Sprint/files>
There's a copy of the entire ATS3a manual, and a couple of versions of an ATS3a label that has the directions. I can't figure out Yahoo's alphabetization rules, so keep scrolling through until you find what you need.
-- Bill, AB1AV

On Wed, Apr 11, 2012 at 8:59 PM, <asfco@...> wrote:

After a few small problems I have my 3a up and running However I can't find the operating instructions re: exactly how to access all of the features from the 4 push buttons.
Are there any other 3a owners out there can scan a copy and email it to me? I"d like to use this next week on an upcoming trip.
Thanks
72/73
John W2GB

8695. Re: Minor Confusion in MTR Doc's

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-12 20:26:36 UTC
From: jgaffke
Topic: 8689 Message: 8695

Does not effect the build instructions, but off sheet references on schematic page 1 are perhaps a bit out of date:
"To U8 Pin9" should read "BSRES"
"MUTE_PIN20_U8" should read "MUTE"
"SIDETONE_PIN3_U10" should read "SIDETONE"
Also "TO ANT" might show a connector instead of an off sheet reference symbol.

You did pretty good if it works as well as most any of your previous rigs!

Jerry

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Yes, you are correct. The parts list should have C11 as 100 p and C18 as 22
> p. If that's the only error, I did pretty good this time, hi.
>
> Steve
>
>
>
> > While getting familiar with the new MTR documentation prior to assembly, I
> > believe I found a minor issue in the parts list. C18 and C11 appear to be
> > swapped in the parts list on page 5.
> >
> > The table on page 8 shows C18 as 22 pF (orange), and C11 as 100 pF
> > (violet). The parts list on page 5 shows C18 as 100 pF (violet) and C11 as
> > 22 pF (orange).
>

8726. no smoke

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 07:18:51 UTC
From: jgaffke
Topic: 8726 Message: 8726

MTR not quite up, but close. Got as far as the BFO adjustment section, no obvious peak.
It'll wait till I have access to a scope on Monday.
On p6 of the manual: add Q5 to the list
On p12: PA gates are on Q7-9, and keying is done at Q5
On p12: I had to press RIT+UP, got "YR" in the phones, "r" displayed
Jerry

8727. Re: Solder Paste Sources?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 11:12:00 UTC
From: Jonathan
Topic: 6623 Message: 8727

I'll be interested in that source, too. My syringe, I thought, might still be good, but it had dried out.
I tried a little experiment, adding a drop or two of isopropyl alcohol and stirring it from the plunger side of the syringe. I felt pretty good about the project until I test-heated a component. The alcohol dried and left a powdery, unsoldery substance behind, and with a tiny 'pop' the entire chip literally flipped off the board like a Mexican Jumping Bean. I imagined that happening to a fully populated board... and decided it was time to shelve the MTR project until fresh Kester Easy Profile 256 is obtained.
Jonathan KC7FYS

8728. Re: [AT_Sprint] Re: Solder Paste Sources?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 12:25:43 UTC
From: Michael Harnage
Topic: 6623 Message: 8728

I got the same from Cash's site. I just ordered some from cmlsupply.com. Never used them before, so we shall see.

-mike/w1mt

>_____
> From: erehm <erehm@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Sunday, April 15, 2012 2:06 AM
>Subject: [AT_Sprint] Re: Solder Paste Sources?
>
>> > Is the "Cash Olson" source still viable?
>> > http://www.kd5ssj.com/solderpaste the site is a maze of broken links, so
>> > I wasn't sure if it was just in "ruins" or still in business?
>
>PayPal links at http://kd5ssj.com/solderpaste are all non-functional:
>"This recipient is currently unable to receive money."
>
>Suggestions for another source of solder paste and syringes? What kind : tin/lead, lead free, water soluble?
>
>MTR waiting to be built....
>
>/eric kj7ae
>
>
>
>----------
>
>Yahoo! Groups Links
>
>
>
>
>
>

8729. Re: [AT_Sprint] Re: Solder Paste Sources?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 06:42:33 UTC
From: kd5kxf@classicnet.net
Topic: 6623 Message: 8729

I have been in contact with Cash this week and he had a problem with paypal that he was working on
getting straight. Should be back up and running in next few days. I too am planning to go that
route on my MTR.

Mike KD5KXF

---- erehm <erehm@...> wrote:
> > > Is the "Cash Olson" source still viable?
> > > http://www.kd5ssj.com/solderpaste the site is a maze of broken links, so
> > > I wasn't sure if it was just in "ruins" or still in business?
>
> PayPal links at http://kd5ssj.com/solderpaste are all non-functional:
> "This recipient is currently unable to receive money."
>
> Suggestions for another source of solder paste and syringes? What kind : tin/lead, lead free, water soluble?
>
> MTR waiting to be built....
>
> /eric kj7ae
>

8730. Re: Preliminary To Building the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 16:20:39 UTC
From: ArthurRipple
Topic: 8730 Message: 8730

That’s how I did it started on biggest chips first ! it went together fast !

And a lot of fun!
Arthur NS7E

8731. Re: no smoke

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 19:41:18 UTC
From: jgaffke
Topic: 8726 Message: 8731

Now up. Had a solder short across the ends of a couple 0805 caps. Can hear CW on 40, and heats up a 50 ohm resistor quite nicely.
Nice rig!

A few minor notes:
I think the silk for "BNDA" and "BNDB" is reversed, 40 meters was on the ones labeled "BNDA". (But the build instructions are fine.)

On p13 step 2, there's no stop on CT1, so no point giving it a 1/4 turn

On p13 in the middle, the "trouble shooting guide" is on page 14.

On p14 at bottom, Steve recommends using the "NXP print to identify pin 1 of the SA612A's. Good advice, as these don't have the dimple that the other IC's sport, and the bevel mentioned in the assembly instructions is almost impossible to discern. But note that the "612" on U1 as printed in the drawing of p6 is the opposite orientation of what the actual SA612A has, I'm sure somebody out there is going to put that one in backwards.

Jerry

On all those SOIC's, the part number is printed In all cases, the part number should be printed

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> MTR not quite up, but close. Got as far as the BFO adjustment section, no obvious peak. It'll wait till I have access to a scope on Monday.
> On p6 of the manual: add Q5 to the list
> On p12: PA gates are on Q7-9, and keying is done at Q5
> On p12: I had to press RIT+UP, got "YR" in the phones, "r" displayed
> Jerry
>

8732. Missing Messages

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 19:57:26 UTC
From: radio_kx0r
Topic: 8732 Message: 8732

Does anyone else notice that recent messages 8696 through 8725 are missing here?

Is this a quirk in my system, or do you all see them missing?
The search button where you put in the message number does not retrieve them either.

There were some key messages from Steve Weber in this group.

Very odd. They were there yesterday!

I tried logging in, logging out, etc.

Did Yahoo's server suffer a failure?

Carey
KX0R

8733. Re: Missing Messages

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 20:09:53 UTC
From: jgaffke
Topic: 8732 Message: 8733

I've noticed the missing messages here too.
Tried calling them up as individual messages to no avail.
But they showed up in the email digest I subscribed to.

Also, if I went to http://groups.yahoo.com/group/AT_Sprint/
and clicked "Messages" from the menu on the left side, I
was getting only the stuff that was at least a couple days old,
but clicking "New Messages" at the top usually got the recent
messages too. At the moment, both seem to give recent messages.
Jerry Gaffke, KE7ER, PDX OR

---"radio_kx0r" <careyfuller@...> wrote:
> Does anyone else notice that recent messages 8696 through 8725 are missing here?

8734. Re: [AT_Sprint] Missing Messages

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 20:29:43 UTC
From: Stephen Wandling
Topic: 8732 Message: 8734

I have 37 messages between these two posts, so it seems to be an issue on Yahoo server's end. They were sent out, but not stored?

My ATS messages are stored in Thunderbird, and I'm not at all sure how I might send them to you, except forwarding one at a time. Forwarding 37 messages would be a chore, but maybe easier than getting Yahoo to fix the situation? There are only 6 messages from Steven Weber in that group, and sending them to the list might cause confusion?

Maybe, as a moderator, Mike, W1MT, could exert some pressure on Yahoo.

72 Stephen VE7NSD

On 15/04/2012 12:57 PM, radio_kx0r wrote:
> Does anyone else notice that recent messages 8696 through 8725 are missing here?
>
> Is this a quirk in my system, or do you all see them missing?
> The search button where you put in the message number does not retrieve them either.
>
> There were some key messages from Steve Weber in this group.
>
> Very odd. They were there yesterday!
>
> I tried logging in, logging out, etc.
>
> Did Yahoo's server suffer a failure?
>
> Carey
> KX0R
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

8735. Re: [AT_Sprint] Missing Messages

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 20:46:57 UTC
From: Gil WA5YKK
Topic: 8732 Message: 8735

Carey, Steve, et all;

It's not just the Yahoo system which is backfiring, my area of the Internet is wobbly, and I use only the Thunderbird email for my messages. The one that Microsoft hands you is full of bugs, thus I've voided it for years. Thunderbird automatically puts a copy of every message you send into a file on the hard disk, an item that I discovered one day that saved days of work and valuable items! Forwarding from the 'saved in the file" process is the most logical way to go, since the inner workings of Yahoo are quite mysterious and unfathomable. Plainly, it's a computer machine, and any human return for help may not be possible.

Just some friendly advice, I've done a lot of suffering with files before I got the massive, independent, backup drives to plug into this machine.

73's
Gil WA5YKK

On 4/15/2012 3:29 PM, Stephen Wandling wrote:
>
> I have 37 messages between these two posts, so it seems to be an issue
> on Yahoo server's end. They were sent out, but not stored?
>
> My ATS messages are stored in Thunderbird, and I'm not at all sure how I
> might send them to you, except forwarding one at a time. Forwarding 37
> messages would be a chore, but maybe easier than getting Yahoo to fix
> the situation? There are only 6 messages from Steven Weber in that
> group, and sending them to the list might cause confusion?
>
> Maybe, as a moderator, Mike, W1MT, could exert some pressure on Yahoo.
>
> 72 Stephen VE7NSD
>
> On 15/04/2012 12:57 PM, radio_kx0r wrote:
> > Does anyone else notice that recent messages 8696 through 8725 are
> missing here?
> >
> > Is this a quirk in my system, or do you all see them missing?
> > The search button where you put in the message number does not
> retrieve them either.
> >
> > There were some key messages from Steve Weber in this group.
> >
> > Very odd. They were there yesterday!
> >

> > I tried logging in, logging out, etc.
> >
> > Did Yahoo's server suffer a failure?
> >
> > Carey
> > KX0R
>

8736. Archived digest files posted

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 21:09:10 UTC
From: n1rx
Topic: 8736 Message: 8736

Hello all.

I have created a new folder called "Messages 8686-8725" in the Files section. In that folder are three text files with the contents of the Digest messages sent covering the period in question. Anyone who wants local copies of those messages are invited to download the three digests. They are quite small.

-Back to the soldering iron!

73,
Bruce, N1RX

8737. Re: Missing Messages

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 21:09:51 UTC
From: jgaffke
Topic: 8732 Message: 8737

I've archived most of the missing messages up in
Files/KE7ER/Digest_1639, 1640, 1641
Will post the remaining missing messages when
digest 1642 arrives via email.
Will remove these files if the message server ever recovers them.
Jerry

8738. Re: Missing Messages

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 21:15:09 UTC
From: jgaffke
Topic: 8732 Message: 8738

Bruce, you beat me to it. By about a minute.
I'll wait a few hours, then remove my copy of the files.
Jerry

##############
I have created a new folder called "Messages 8686-8725"
in the Files section. 73, Bruce, N1RX
##############
--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
I've archived most of the missing messages up in Files/KE7ER/...

8739. Re: no smoke

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 21:30:34 UTC
From: jgaffke
Topic: 8726 Message: 8739

I previously wrote:
> I think the silk for "BNDA" and "BNDB" is reversed,
> 40 meters was on the ones labeled "BNDA".
> (But the build instructions are fine.)
This refers to the trimmer caps on the top of the board.
The issue only comes up when you try adjusting for maximum
received signal. The easiest fix at this point is probably
to edit the manual, reversing all references to BNDA and BNDB.

> On p13 step 2, there's no stop on CT1,
> so no point giving it a 1/4 turn
Perhaps there is a point to this after all.
I don't know how those trimmers arrive, probably set to min or max.
A quarter turn either direction would then set them mid range.

Jerry

8740. Re: Missing Messages

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 22:02:37 UTC
From: n1rx
Topic: 8732 Message: 8740

Great minds think alike... It looked to me as though digests 1639 - 1641 contained all the missing messages. 1641 ended with your "no smoke" posting, which was message # 8726. So, we should be all set with those 3.

My MTR kit arrived Friday afternoon, but I have had the "on-call week from hell", and have only been able to start it this afternoon. So far 65+ hours to my employer this week, and have to get through tomorrow at 7am. That dang pager tends to go off at the most inconvenient time (like just when I am getting to sleep...)

73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Bruce, you beat me to it. By about a minute.
> I'll wait a few hours, then remove my copy of the files.
> Jerry

8741. Re: [AT_Sprint] Missing Messages

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 22:45:45 UTC
From: Michael Harnage
Topic: 8732 Message: 8741

Ha, not likely. I don't think we're a blip on Yahoo's radar screen. I wouldn't even know how to try to contact anyone. I suspect that the problem is on their end and they are working on it. Probably a server gone down. Wouldn't be surprised to see them reappear in a day or two. Thankfully we have some on the ball members and the missing messages have been made available.

-mike

>_____
>
>
>Maybe, as a moderator, Mike, W1MT, could exert some pressure on Yahoo.
>
>

8742. RE: [AT_Sprint] Re: Solder Paste Sources?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-15 23:13:47 UTC
From: Ken Lotts
Topic: 6623 Message: 8742

Spark fun is my favorite source for geek supplies..

I did a brief search and found this.. There may be others as well.
BTW, They have a bunch of tutorials if you look in their tutorial sections:

http://www.sparkfun.com/products/10448

you should probably get one of these too...

http://www.sparkfun.com/products/9790

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com]On
Behalf Of Jonathan
Sent: Sunday, April 15, 2012 4:12 AM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Solder Paste Sources?

I'll be interested in that source, too. My syringe, I thought, might still
be good, but it had dried out.
I tried a little experiment, adding a drop or two of isopropyl alcohol and
stirring it from the plunger side of the syringe. I felt pretty good about
the project until I test-heated a component. The alcohol dried and left a
powdery, unsoldery substance behind, and with a tiny 'pop' the entire chip
literally flipped off the board like a Mexican Jumping Bean. I imagined that
happening to a fully populated board... and decided it was time to shelve
the MTR project until fresh Kester Easy Profile 256 is obtained.
Jonathan KC7FYS

8744. Whoops.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 00:45:33 UTC
From: Jonathan
Topic: 8744 Message: 8744

Replied to group by accident.
Sorry!
Jonathan KC7FYS

8745. Re: no smoke

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 03:42:08 UTC
From: jgaffke
Topic: 8726 Message: 8745

MTR firmware seems to scan right through lower band edges
without a peep.

8746. Re: no smoke

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 11:03:32 UTC
From: n1rx
Topic: 8726 Message: 8746

I am not rady to put power to mine yet- perhaps this evening. I hope you are keeping track of these firmware notes. Did you hear anything back from Steve on this one:

"On p12: I had to press RIT+UP, got "YR" in the phones, "r" displayed".

Hearing "YR" instead of "CF" is too bizarre. Also, you said you saw a lower case r on the display instead of c. I thought perhaps you had a bad solder connection and the lowest horizontal segment wasn't working... Is the display working properly other wise? Were you able to complete the freq calibration?

I plan to work on the rig today, in between e-filing my tithe to the govmnt.

73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> MTR firmware seems to scan right through lower band edges
> without a peep.
>

8747. Manual corrections

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 08:37:11 UTC
From: Scott Cowling
Topic: 8726 Message: 8747

Hi Steve and the group,

Here are a few manual corrections that I found while building the MTR. I am not done yet, but I have all of the parts on the board except for the five toroids.

Here is what I found:

Parts list, page 5:

1) left column, line 16. 113K resistor: "Color code or value #" column is "1132", should be "1133"

2) left column, line 17, 267K resistor: "Color code or value #" column is "2672", should be "2673"

3) left column, last line, 8.6uH inductor: "Value" column is 8.6uH, should be 8.2uH;
left column, last line, 8.6uH inductor: "Location(s)" column is "GRY/BLUE/GLD/GLD", should be "GRY/RED/GLD/GLD"

4) Right column, line 3, TC1014-3.3VCT713: "Color code or value #" column should include the color "BROWN"; part is marked that way

5) RCA antenna jack is in the kit, but not listed in the parts list

Semiconductor placement, page 6:

6) Q5 is missing from the table in lower right corner:
Add line at end of table with "Location" of "Q5" and "PART #" of "2955"

Great fun so far, everything goes together easy!

73,
Scotty WA2DFI

8748. Re: [AT_Sprint] Re: no smoke

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 13:08:12 UTC
From: lawresh@woh.rr.com
Topic: 8726 Message: 8748

Oh to be so lucky to only have to send in 10% !!!

Steve
aa8af

(sorry... couldn't leave that alone!)

---- n1rx <bruce.beford@...> wrote:
>
> I plan to work on the rig today, in between e-filing my tithe to the govmnt.
>

8749. Re: [AT_Sprint] Re: no smoke

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 16:35:37 UTC
From: Steven Weber
Topic: 8726 Message: 8749

> Hearing "YR" instead of "CF" is too bizarre. Also, you said you saw a
> lower case r on the display instead of C.

Seems I encoded the letter C incorrectly. Instead of 01b00h, it should have been 01a00h.

The letter "C" shows up on the display while "Y" is being sent by the side tone, then it changes to 'r'. So, it is easy to miss seeing the C flash by.

Lower Tuning limit doesn't work: It works if your single steping the frequency. Seems it can miss it when in fast tune mode. Looks like if there is a 50 Hz remainder in the frequency, when fast tune starts and uses 100 Hz steps, the 50 Hz never gets tested and therefore can skip by the test. Let me see if I can fix that for the remander of the kits to be sent out.

72, Steve

8750. Re: no smoke

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 16:35:37 UTC
From: jgaffke
Topic: 8726 Message: 8750

I got it to where I'm convinced it functions, have to drop it now as I have my own 60+ hr work weeks.
I'm really pleased with the tradeoffs Steve made on this one. Two bands on the main board, display, AGC, only five easy toroids, altoids tin sizing, great price. My only regret is I'd prefer an MSP430F5132 for the additional flexibility it gives. Perhaps we should move the code base to C so it's more accessible and easy for users to play with. Unlike many uC's, the MSP430 runs efficiently on C.
Display works fine. Yes, the enunciated "YR" is weird, especially since there's no instance of "MRS_Y" in the source code. Maybe the vendor burned the wrong firmware into the MSP430's? I've had that happen multiple times where I work, we finally gave up on the vendor and load all flash parts ourselves. But I think the MTR functions fine as is, and the MSP430 launchpad programmer/eval kit is only $4.30 for those that want to update the firmware.
OK, back to work.

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
> ... Hearing "YR" instead of "CF" is too bizarre. ...

8751. Re: no smoke

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 16:40:17 UTC
From: jgaffke
Topic: 8726 Message: 8751

That's reassuring. And I take back most of those nasty things I said about vendors. ;)
Great little rig!

---"Steven Weber" <steve.kd1jv@...> wrote:
> Seems I encoded the letter C incorrectly. ...

8752. MTR working here.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 16:55:27 UTC
From: n1rx
Topic: 8752 Message: 8752

I completed the assembly and calibration/alignment of the MTR today. All seems to be functioning properly. I am getting 4.5-5w out with 12.3 in from a 3s lipo pack. Have not peaked the TX filters yet for max output/efficiency. RX sensitivity appears to be good. I have not yet made a QSO, or mounted it in a case. I am debating possibly putting it in a slight larger than Altoids case, so I can include an EFHW tuner for 40/20M. I'll mull over that one a bit.

Looks good, Steve! Another winner.
73,
Bruce, N1RX

8753. Thanks Mr. Postman!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 17:06:26 UTC
From: Don Hinds
Topic: 8753 Message: 8753

My MTR kit finally showed up in the morning mail so I'm ready to get rolling. But, I have questions.

I've built SMT projects before, but I always hand-soldered the SMT components. This time, I would really like to try the SMT paste technique since it seems easier to get a high quality outcome. My question is, do you place all of the parts on the board before you heat the board? Or do you place some components, heat the board. Then add more paste and more components followed by another heating cycle. Can you do a second heating cycle or is that a bad idea?

How long can the solder paste sit on the board without heating before it starts to dry out, go bad, whatever?

Forgive if these should be obvious, I'm trying to figure this all out.

73,
Don
WD4ON

8754. Re: [AT_Sprint] Thanks Mr. Postman!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 17:17:43 UTC
From: Michael Harnage
Topic: 8753 Message: 8754

I've done it all different ways with equal results (i.e. good). Do what you're comfortable with. I use an oven if doing all parts on a side at a time or a hot air gun if doing multiple cycles. Often it's my schedule that determines what method I use.

Patiently awaiting my solder paste cause I'm just not doing it my hand anymore. :)

-mike/w1mt

>_____
> My question is, do you place all of the parts on the board
before you heat the board? Or do you place some components, heat the board. Then add more paste and more components followed by another heating cycle. Can you do a second heating cycle or is that a bad idea?
>
>
>

8755. MTR pix

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 17:15:44 UTC
From: Scott Cowling
Topic: 8755 Message: 8755

Posted under "MTR_WA2DFI".

I'm not quite done yet, but I posted pictures of the MTR PCB top and bottom.

It is all done except the toroids and the external connectors (and
the Altoids tin mods, of course.)

Looking forward to my first QSO, maybe tonight!

Another winner, Steve!

73,
Scotty WA2DFI

8756. Re: Thanks Mr. Postman!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 18:19:51 UTC
From: jgaffke
Topic: 8753 Message: 8756

Hand soldering with the right fine tipped temp controlled iron works fine for me. Took about 6 hours total, including winding the coils and a very long pause before applying power. Now that I have the destructions figured out, might be 4 hours. But I do plan to try solderpaste next time.
Jerry

--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:
>
> I've done it all different ways with equal results (i.e. good). Do what you're comfortable with. I use an oven if doing all parts on a side at a time or a hot air gun if doing multiple cycles. Often it's my schedule that determines what method I use.
>
> Patiently awaiting my solder paste cause I'm just not doing it my hand anymore. :)
>
> -mike/w1mt
>
>
>
>
> >_____
> > My question is, do you place all of the parts on the board
> before you heat the board? Or do you place some components, heat the board. Then add more paste and more components followed by another heating cycle. Can you do a second heating cycle or is that a bad idea?
> >
> >
> >
>

8757. RE: [AT_Sprint] Thanks Mr. Postman!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 18:21:44 UTC
From: Dale Putnam
Topic: 8753 Message: 8757

I'm doing a number of the smt boards one side at a time, with a cup warmer, and hot air. One side at a time. That is the fastest for me. The hand soldering is left for cleanup, to touchup the contacts that didn't make it well during the solder paste. Careful application of thepaste, with a critical eye to amount deposited, with reward one, with a high percentage of perfectly soldered contacts. This is specifically, one of those times that LESS is Best.
--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: don.hinds@...
Date: Mon, 16 Apr 2012 13:06:26 -0400
Subject: [AT_Sprint] Thanks Mr. Postman!!!

My MTR kit finally showed up in the morning mail so I'm ready to get rolling. But, I have questions.

I've built SMT projects before, but I always hand-soldered the SMT components. This time, I would really like to try the SMT paste technique since it seems easier to get a high quality outcome. My question is, do you place all of the parts on the board before you heat the board? Or do you place some components, heat the board. Then add more paste and more components followed by another heating cycle. Can you do a second heating cycle or is that a bad idea?

How long can the solder paste sit on the board without heating before it starts to dry out, go bad, whatever?

Forgive if these should be obvious, I'm trying to figure this all out.

73,
Don
WD4ON

8758. Re: [AT_Sprint] MTR working here.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 18:56:05 UTC
From: John Shadle
Topic: 8752 Message: 8758

Bruce,
Do you have any other comments about the manual, etc. that you could share,
or did you follow the errata that were posted to the list by others?

Mine hasn't arrived in the mail yet, but maybe today...

Thanks.
-john W4PAH
Madison, WI

On Mon, Apr 16, 2012 at 12:55 PM, n1rx <bruce.beford@myfairpoint.net> wrote:

> **
>
>
> I completed the assembly and calibration/alignment of the MTR today. All
> seems to be functioning properly. I am getting 4.5-5w out with 12.3 in from
> a 3s lipo pack. Have not peaked the TX filters yet for max
> output/efficiency. RX sensitivity appears to be good. I have not yet made a
> QSO, or mounted it in a case. I am debating possibly putting it in a slight
> larger than Altoids case, so I can include an EFHW tuner for 40/20M. I'll
> mull over that one a bit.
>
> Looks good, Steve! Another winner.
> 73,
> Bruce, N1RX
>
>
>

8759. RE: [AT_Sprint] Thanks Mr. Postman!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 19:06:04 UTC
From: Don Hinds
Topic: 8753 Message: 8759

Good to hear! I know that the way my days go, I might only have thirty minutes to work on this at a throw, but I want to get rolling soon.

I also am waiting on my paste order to arrive, but it should be here before the week is out.

73,
Don
WD4ON

8760. Re: [AT_Sprint] MTR working here.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 19:38:28 UTC
From: Wilford D Lindsey
Topic: 8752 Message: 8760

Bruce and Steve:

Congrats indeed on the new rig, for certain! Wow. I can hardly wait to have my very first QSO with one. I wonder whether you Bruce might simply post to the entire group when you will be on and your sked, okay?

And Steve, kudos for yet another grand slam home run from that great designer's mind of yours. Thanks for making so many fabulous transceivers thru the years which have enriched our experiences as QRP operators. All of us are truly in your debt, Sir.

73,
Doc/K0EVZ Licensed 52 years, always QRP
and CW. A Fox Hunter since
1996.

Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: "n1rx" <bruce.beford@myfairpoint.net>
Sender: AT_Sprint@yahoogroups.com
Date: Mon, 16 Apr 2012 16:55:27
To: <AT_Sprint@yahoogroups.com>
Reply-To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] MTR working here.

I completed the assembly and calibration/alignment of the MTR today. All seems to be functioning properly. I am getting 4.5-5w out with 12.3 in from a 3s lipo pack. Have not peaked the TX filters yet for max output/efficiency. RX sensitivity appears to be good. I have not yet made a QSO, or mounted it in a case. I am debating possibly putting it in a slight larger than Altoids case, so I can include an EFHW tuner for 40/20M. I'll mull over that one a bit.

Looks good, Steve! Another winner.
73,
Bruce, N1RX

8761. Re: MTR working here.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-16 20:01:28 UTC
From: n1rx
Topic: 8752 Message: 8761

Hi, John.
No real new items to report. I just marked up my assy manual with the items already reported. None of those really interfered with construction anyway.

72/73,
Bruce N1RX

--- In AT_Sprint@yahoogroups.com, John Shadle <shadle@...> wrote:
>
> Bruce,
> Do you have any other comments about the manual, etc. that you could share,
> or did you follow the errata that were posted to the list by others?
>
> Mine hasn't arrived in the mail yet, but maybe today...
>
> Thanks.
> -john W4PAH
> Madison, WI

8762. MTR internal keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-17 02:21:26 UTC
From: Joseph Trombino, Jr
Topic: 8762 Message: 8762

If someone has their MTR rig up and running I'd like to know how the internal keyer in mode B is working...any problems/quirks/timing issues??

Hope to start building mine this week.

73, Joe W2KJ
I QRP, therefore I am

8763. "AT5" announced in N Iraq in the morning?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-17 04:43:21 UTC
From: Jerry
Topic: 8763 Message: 8763

Steve, KD1JV, and gang,

The following is the "honest to God" truth!

After listening to one dove in my antenna friendly
mulberry tree coo .- - for over five minutes
at 12-15 second intervals (the bird is still at it),
I was imaging I might next hear -3 or -4 or
MTR next..... !!!

actually another bird just started cooing string of
5's ..... !!!

Code in code?

AT5? What is that supposed to mean?

This is not meant to start the rumor mill !!!

These doves do have steady beak-fists !!!

Both were RST 596 !!!

It's time for breakfast.

Jerry
N4EO/YI9EO

P.S.- Over 100 DXCC countries/4000 stations worked since
last Oct with K-3 and my own amp'ed up homebrew
version of ALT matching unit of Melt Solder design.
No NA stations worked in long time on 15, 12, 10 M
given sunspot flop of late....sorry !!!

8764. Re: [AT_Sprint] "AT5" announced in N Iraq in the morning?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-17 07:02:33 UTC
From: Wilford D Lindsey
Topic: 8763 Message: 8764

Aw Jeez Jerry:

All this time I thot you were struggling along with a K-2, not a -3 (flamethrowers *off* guys okay?!.....they're both fabulous radios)! They say that when a person begins to hear cw *everywhere*.....they just may be cracking up, er, may have been somewhere too long?

I surely wud like to work you whilst ur there, tho. It wud quite a kick for me, I'll admit it!

GL and 73
Doc+/K0EVZ
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: "Jerry" <n4eobrown@gmail.com>
Sender: AT_Sprint@yahoogroups.com
Date: Tue, 17 Apr 2012 04:43:21
To: <AT_Sprint@yahoogroups.com>
Reply-To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] "AT5" announced in N Iraq in the morning?

Steve, KD1JV, and gang,

The following is the "honest to God" truth!

After listening to one dove in my antenna friendly
mulberry tree coo .- - for over five minutes
at 12-15 second intervals (the bird is still at it),
I was imaging I might next hear -3 or -4 or
MTR next..... !!!

actually another bird just started cooing string of
5's ..... !!!

Code in code?

AT5? What is that supposed to mean?

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These doves do have steady beak-fists !!!

Both were RST 596 !!!

It's time for breakfast.

Jerry
N4EO/YI9EO

P.S.- Over 100 DXCC countries/4000 stations worked since
last Oct with K-3 and my own amp'ed up homebrew
version of ALT matching unit of Melt Solder design.
No NA stations worked in long time on 15, 12, 10 M
given sunspot flop of late....sorry !!!

8765. MTR On the Air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-17 07:58:47 UTC
From: Scott Cowling
Topic: 8765 Message: 8765

Hi Steve and the group,

It's alive! All tune up steps worked, but some confusion due to different button pushes needed than what the manual says.

I won't repeat the ones that Jerry found, but pick up where he left off.

Here is what I found:

Reference Oscillator Frequency Calibration, page 5:
To get into CAL mode, I needed to hold <RIT> and <Tune Up>, not <RIT> and <Tune Down> when I powered up the rig.

Like Jerry says, you hear "YR": in Morse, then see "r" on the display. Adjustment is per the instructions.

When you are done and hit MENU, you hear "YO" in Morse, then see "o" on the display.

LO trim on page 13 then follows OK.

As Jerry mentioned, BNDA and BNDB are reversed both in the "Receiver Input Peaking" section and on the schematic.

On page 21, under the "P" section, I found that the <Tune Down> button turns the Morse annunciate on and off, while the <Tune Up> button saves the state of the rig.

Also, on the schematic, I think that the toroids are mis-marked:
L11 should be L10
L12 should be L11
L13 should be L12
L14 should be L13

Nothing earth shaking once you figure it out. Finally, here are my TX measurements:

40M: 9V@440mA = 4W out
40M: 12V@560mA = 6W out
20M: 9V@440mA = 4W out
20M: 12V@630mA = 6W out

spreading/squeezing doesn't seem to have a great effect.

Measurements taken with Elecraft W1, to nearest watt. Will try this again tomorrow with NorCal QRP wattmeter to nearest 100mW.

I'm not convinced that I am really getting 6W out. :-)

73,
Scotty WA2DFI

8766. beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-17 13:15:55 UTC
From: John Shadle
Topic: 8766 Message: 8766

Hi all,
I was wondering if anyone has a good, reliable beverage warmer they can recommend. I picked up this device at a Radio Shack sale some time in the past, but the board doesn't touch the warmer, so the heat is never transferred.

http://www.tulsasuperads.com/electronics_For_Sale/C513A274151P5/JOURNEY_S_EDGE_2_0_USB_Beverage_Warmer.aspx

Is there some way I should "modify" the beverage warmer so that it touches the board, or are there other beverage warmers out there that are better?

In anticipation of the MTR kit arriving, I did some solder paste work with a few other projects that came in the mail recently. I'll never go back to soldering by hand of SMD parts, when possible. Of course, I was only using the hot air gun and not a beverage warmer beneath. Worked fine, but I can imagine using the warmer would decrease the time a bit.

Thanks.
-john W4PAH
Madison, WI

8767. RE: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-17 13:24:33 UTC
From: Dale Putnam
Topic: 8766 Message: 8767

Hi John, That's the shape of the one that I use.. and I don't have to space the board up... so it doesn't over cook, with pennies, or ???If you don't like that one... let me know, k? Cause the one I have is plastic... and the hot air gun has over toasted the plastic, in places.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: shadle@...
Date: Tue, 17 Apr 2012 09:15:55 -0400
Subject: [AT_Sprint] beverage warmer source?

Hi all,

I was wondering if anyone has a good, reliable beverage warmer they

can recommend. I picked up this device at a Radio Shack sale some time

in the past, but the board doesn't touch the warmer, so the heat is

never transferred.

http://www.tulsasuperads.com/electronics_For_Sale/C513A274151P5/JOURNEY_S_EDGE_2_0_USB_Beverage_Warmer.aspx

Is there some way I should "modify" the beverage warmer so that it

touches the board, or are there other beverage warmers out there that

are better?

In anticipation of the MTR kit arriving, I did some solder paste work

with a few other projects that came in the mail recently. I'll never

go back to soldering by hand of SMD parts, when possible. Of course, I

was only using the hot air gun and not a beverage warmer beneath.

Worked fine, but I can imagine using the warmer would decrease the

time a bit.

Thanks.

-john W4PAH

Madison, WI

8768. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-17 13:29:19 UTC
From: John Shadle
Topic: 8766 Message: 8768

I think they are all about that same shape, which makes it tricky identifying a "good" one.

I took mine apart, and found that the plastic on top ensures that the metal plate touches the heating element. Once you remove the plastic top, the metal plate just "floats" and is in contact with the heating elements through thermal paste. Very crude design. Clearly they didn't want you to use it with the top off for SMD soldering. ;-)

-john W4PAH

On Tue, Apr 17, 2012 at 9:24 AM, Dale Putnam <daleputnam@...> wrote:

> **
>
>
> Hi John,
> That's the shape of the one that I use.. and I don't have to space the
> board up... so it doesn't over cook, with pennies, or ???
> If you don't like that one... let me know, k? Cause the one I have is
> plastic... and the hot air gun has over toasted the plastic, in places.
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: shadle@...
> Date: Tue, 17 Apr 2012 09:15:55 -0400
> Subject: [AT_Sprint] beverage warmer source?
>
>
>
> Hi all,
> I was wondering if anyone has a good, reliable beverage warmer they
> can recommend. I picked up this device at a Radio Shack sale some time
> in the past, but the board doesn't touch the warmer, so the heat is
> never transferred.
>
>
> http://www.tulsasuperads.com/electronics_For_Sale/C513A274151P5/JOURNEY_S_EDGE_2_0_USB_Beverage_Warmer.aspx
>
> Is there some way I should "modify" the beverage warmer so that it
> touches the board, or are there other beverage warmers out there that
> are better?
>

> In anticipation of the MTR kit arriving, I did some solder paste work
> with a few other projects that came in the mail recently. I'll never
> go back to soldering by hand of SMD parts, when possible. Of course, I
> was only using the hot air gun and not a beverage warmer beneath.
> Worked fine, but I can imagine using the warmer would decrease the
> time a bit.
>
> Thanks.
> -john W4PAH
> Madison, WI
>
>
>

8769. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-17 16:39:51 UTC
From: Steven Weber
Topic: 8766 Message: 8769

> I was wondering if anyone has a good, reliable beverage warmer they
> can recommend. I picked up this device at a Radio Shack sale some time

I picked up an electric griddle at Wally-world around Christmass time a few years back. It's a lot begiger than whats really needed, but it was cheap ~ $19. Or check the local thrift stores and yard sales, electric griddles are common in those kinds of places for just a few dollars.

72, Steve KD1JV

8770. Re: beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-17 16:50:14 UTC
From: jgaffke
Topic: 8766 Message: 8770

Hard to imagine the ~5 Watts from a USB port making much difference, though all that plastic may reduce convective air flow some. A 1500 Watt griddle is another matter.

8771. Cash Olson Soldering Paste

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-17 18:30:23 UTC
From: kd5kxf
Topic: 8771 Message: 8771

Cash has fixed his paypal problem and is back online with his soldering paste.

No affiliation, just a small quantity consumer and YMMV etc...

72
Mike KD5KXF

8772. Re: no smoke

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-17 20:25:19 UTC
From: jgaffke
Topic: 8726 Message: 8772

If you're messing with fast tune mode, maybe blink an
LED segment every 5KHz so we know where we're at.
Jerry

---"Steven Weber" <steve.kd1jv@...> wrote:
> ... Seems it can miss it when in fast tune mode ,,,
> ... see if I can fix that for the remander of the kits ...

8773. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 00:24:56 UTC
From: Steve
Topic: 8766 Message: 8773

John,
I have two pre-heat sources...

Presto 07211 Liddle Griddle: which is about 8 x 10 inches in size, thermostat controlled, available at Amazon and other places.

Brookstone Mug/Coffee warmer: which has a two temperature switch, the hi temp being about 200degF on the surface of the warming plate.

I've used a non-contact IR thermometer to check surface temperatures. You need to be careful not to overheat - which is possible with a "real" griddle. From what I can tell, a pre-heat in the 200-250degF range is about right, although I don't think I've every have read any authoritative literature on the subject related to SMT soldering. Beware: the "liddle griddle" does not have an accurately calibrated thermostat - which I would guess to be true for most consumer griddles of this nature. Also, my griddle swings widely in temperature until it reaches steady state. A method is needed to verify surface temperature (the IR thermometer 'guns' work well for this). In don't think the coffee warmers will get much hotter than 200degF - just short of boiling.

Steve
aa8af

On Apr 17, 2012, at 9:15 AM, John Shadle wrote:

> Hi all,
> I was wondering if anyone has a good, reliable beverage warmer they
> can recommend.

8774. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 01:50:25 UTC
From: Artie Lekstutis
Topic: 8766 Message: 8774

I find that spritzing the surface of a griddle with a few droplets of tap water a good indicator of temperature. Just wet my hand and flick.

If the drops just sit there it's below 212F. If they skitter around it's above 212F. If they boil off slowly it's close enough to 212F to pre-heat the board(s).

Just a hint to those that don't already have an IR thermometer.

Artie Lekstutis
KC2MFS

Steve wrote:
> I've used a non-contact IR thermometer to check surface temperatures. You need to be careful not to overheat - which is possible with a "real" griddle. From what I can tell, a pre-heat in the 200-250degF range is about right, although I don't think I've every have read any authoritative literature on the subject related to SMT soldering. Beware: the "liddle griddle" does not have an accurately calibrated thermostat - which I would guess to be true for most consumer griddles of this nature. Also, my griddle swings widely in temperature until it reaches steady state. A method is needed to verify surface temperature (the IR thermometer 'guns' work well for this). In don't think the coffee warmers will get much hotter than 200degF - just short of boiling.
>
>

8775. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 02:22:02 UTC
From: Roland Whitsitt
Topic: 8766 Message: 8775

Also check Big Lots.

Sent from my iPhone

On Apr 17, 2012, at 9:39, "Steven Weber" <steve.kd1jv@...> wrote:

> > I was wondering if anyone has a good, reliable beverage warmer they
> > can recommend. I picked up this device at a Radio Shack sale some time
>
> I picked up an electric griddle at Wally-world around Christmass time a few
> years back. It's a lot begiger than whats really needed, but it was cheap ~
> $19. Or check the local thrift stores and yard sales, electric griddles are
> common in those kinds of places for just a few dollars.
>
> 72, Steve KD1JV
>
>

8776. MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 02:52:15 UTC
From: Joseph Trombino, Jr
Topic: 8697 Message: 8776

I wonder if anyone has found a nice cabinet for the MTR or are most builders using Altoid tins???

I'd like something larger than could contain 8 AA cells plus the MTR board.

Any ideas out there???

73, Joe W2KJ
I QRP, therefore I am

8777. Re: MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 05:34:42 UTC
From: ke7ngo11
Topic: 8697 Message: 8777

I was looking at a nice enclosuer, aa1, from American Morse Equipment. I have been told Doug is not sure when he will have more.

http://www.americanmorse.com/aa1.htm

--- In AT_Sprint@yahoogroups.com, "Joseph Trombino, Jr" <jotrom@...> wrote:
>
> I wonder if anyone has found a nice cabinet for the MTR or are most builders using Altoid tins???
>
> I'd like something larger than could contain 8 AA cells plus the MTR board.
>
> Any ideas out there???
>
> 73, Joe W2KJ
> I QRP, therefore I am
>

8778. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 07:33:20 UTC
From: Stephen Wandling
Topic: 8766 Message: 8778

It's my understanding that electric griddles can be set much hotter than
a coffee warmer. How do you set yours, so you don't fry the board?

72 Stephen VE7NSD

On 17/04/2012 9:39 AM, Steven Weber wrote:
>> I was wondering if anyone has a good, reliable beverage warmer they
>> can recommend. I picked up this device at a Radio Shack sale some time
>>
> I picked up an electric griddle at Wally-world around Christmass time a few
> years back. It's a lot begiger than whats really needed, but it was cheap ~
> $19. Or check the local thrift stores and yard sales, electric griddles are
> common in those kinds of places for just a few dollars.
>
> 72, Steve KD1JV
>
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> ------------------------------------
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> Yahoo! Groups Links
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8779. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 11:41:11 UTC
From: Valveman
Topic: 8766 Message: 8779

This talk about beverage warmers is related to the MTR project?
Are people looking for a hot plate to solder the SMDs on the board?
If so, in the late 80s I used a flat frying pan on a stove.
Heated the pan and then quickly dropped the board into the pan.

Worked like a charm.

Smelled like Bacon :O)

Robert

VE3RPF

From: Artie Lekstutis <Artie@...>
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, April 17, 2012 6:50:25 PM
Subject: Re: [AT_Sprint] beverage warmer source?

I find that spritzing the surface of a griddle with a few droplets of
tap water a good indicator of temperature. Just wet my hand and flick.

If the drops just sit there it's below 212F. If they skitter around it's
above 212F. If they boil off slowly it's close enough to 212F to
pre-heat the board(s).

Just a hint to those that don't already have an IR thermometer.

Artie Lekstutis
KC2MFS

Steve wrote:
> I've used a non-contact IR thermometer to check surface temperatures. You need to be
careful not to overheat - which is possible with a "real" griddle. From what I can tell, a
pre-heat in the 200-250degF range is about right, although I don't think I've every have
read any authoritative literature on the subject related to SMT soldering. Beware: the
"liddle griddle" does not have an accurately calibrated thermostat - which I would guess to
be true for most consumer griddles of this nature. Also, my griddle swings widely in
temperature until it reaches steady state. A method is needed to verify surface temperature
(the IR thermometer 'guns' work well for this). In don't think the coffee warmers will get
much hotter than 200degF - just short of boiling.
>
>

8780. Re: beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 12:50:31 UTC
From: mpupeza
Topic: 8766 Message: 8780

Stephan;
I use a lab type hotplate (surplus sale!).
The easiest way to keep the temp at around the boiling point of water is just that!
Adjust the heat till drops of water will evaporate off without bubbling or boiling! Too hot and drops will sizzle - too cold and they sit there for a while.
It's not that critical, IMHO.
Of course, I do check with my IR Digital too - but that's more to see how accurate the Dig meter is!
73
Mike VE3EQP .....>

--- In AT_Sprint@yahoogroups.com, Stephen Wandling <swandling@...> wrote:
>
> It's my understanding that electric griddles can be set much hotter than
> a coffee warmer. How do you set yours, so you don't fry the board?
>
> 72 Stephen VE7NSD
>
> On 17/04/2012 9:39 AM, Steven Weber wrote:
> >> I was wondering if anyone has a good, reliable beverage warmer they
> >> can recommend. I picked up this device at a Radio Shack sale some time
> >>
> > I picked up an electric griddle at Wally-world around Christmass time a few
> > years back. It's a lot begiger than whats really needed, but it was cheap ~
> > $19. Or check the local thrift stores and yard sales, electric griddles are
> > common in those kinds of places for just a few dollars.
> >
> > 72, Steve KD1JV
> >
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> > Yahoo! Groups Links
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8781. Re: [AT_Sprint] MTR rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 13:11:05 UTC
From: cloud runner
Topic: 8697 Message: 8781

Yes, just the right eyeglasses case might do it!

73, Fred - kt5x

aka WS0TA
----- Original Message -----
From: Joseph Trombino, Jr
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, April 17, 2012 8:52 PM
Subject: [AT_Sprint] MTR rig

I wonder if anyone has found a nice cabinet for the MTR or are most builders using Altoid tins???

I'd like something larger than could contain 8 AA cells plus the MTR board.

Any ideas out there???

73, Joe W2KJ
I QRP, therefore I am

8782. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 14:58:33 UTC
From: Steven Weber
Topic: 8766 Message: 8782

I set it to 200 on the dial. Put the board on it, turn it on, let it warm up. There's usually a little wisp of smoke from the flux in the past when it gets up to temp and ready for the embosing gun.

Steve

> It's my understanding that electric griddles can be set much hotter than a
> coffee warmer. How do you set yours, so you don't fry the board?
>

8783. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 14:58:56 UTC
From: lawresh@woh.rr.com
Topic: 8766 Message: 8783

Stephen,
You are correct, I think my "liddle griddle" can reach 500degF or more - a couple hundered degrees higher than the solder melting point of about 360, and likely disasterous to the components and board in general!

So, I check the temperature with a non-contact IR thermometer "gun" - and do not rely on the temperature markings on the griddle thermostat. I see the IR thermometers available in home improvement stores (Black & Decker makes one). I happen to have a Raytek model, but they are all similar. The adjustable thermostat on the griddle then keeps the temp in an acceptable range.

Steve
aa8af

---- Stephen Wandling <swandling@...> wrote:
> It's my understanding that electric griddles can be set much hotter than
> a coffee warmer. How do you set yours, so you don't fry the board?
>

8784. Enclosures for ARS rigs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 15:30:17 UTC
From: JohnK
Topic: 8784 Message: 8784

I have been experimenting with different enclosures for the ATS rigs. PAC-TEC has some enclosures that can be modified so the ATS boards will fit. The biggest obstacle that I have encountered is that the ATS tactile switches were made to be the right length to be activated through the thin metal of an Altoids tin. The shafts are too short to go through the thickness of the material used in most plastic or metal enclosures. I will continue the quest. John, W7COI

8785. PCB preheating

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 15:39:19 UTC
From: jor
Topic: 8785 Message: 8785

Hi all,

This company sell's the preheater from china is more expensive bud works well.
http://www.eleshop.nl/aoyue-853a-preheater-p-175.html?osCsid=10bd6ffa78e1b41d8d7469160a6c2c9a

73' Joris PE1KTH

8786. RE: [AT_Sprint] Enclosures for ARS rigs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 15:54:07 UTC
From: Dale Putnam
Topic: 8784 Message: 8786

Hey John, Do the shafts reach to near the inside edge of the enclosure? IF so, then I have a cute way of fixing that... by putting a "button top" attached to the enclosure. If you'd like to try them, let me know your address. k?

--... ...--
Dale - WC7S in Wy

I have been experimenting with different enclosures for the ATS rigs. PAC-TEC has some enclosures that can be modified so the ATS boards will fit. The biggest obstacle that I have encountered is that the ATS tactile switches were made to be the right length to be activated through the thin metal of an Altoids tin. The shafts are too short to go through the thickness of the material used in most plastic or metal enclosures. I will continue the quest. John, W7COI

8787. Push-button Switch Shaft Height With Non-Altoids Enclosures

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 16:44:38 UTC
From: Jonathan
Topic: 8787 Message: 8787

Mention of short switch shafts in regard to this enclosure option brings me to visualize a drilled-out depression in the aluminum that effectively countersinks the buttons of the ATS or MTR rig. Typically haven't these buttons been a slight issue with sticking up? Seems like if you're talking about 2-3mm, you could countersink a bit, within the thickness of your case material, and have a very nice result. Just brainstorming here.
Jonathan KC7FYS

8788. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 17:27:46 UTC
From: Stephen Wandling
Topic: 8766 Message: 8788

I confess that I asked the question because I wasn't seeing mention of the optimum temperature for the board, nor temperatures that would damage the board. Maybe it's mentioned in your video or on Cash Olsen's page?

Putting drops of water on the surface is as good an idea as any. Water boils at 212 F (100 C), so if the drops don't evaporate, it's too cool and if they instantly vaporize, it's too hot. The usual temperature for a beverage warmer is about 195 F (90 C).

I don't throw much away, and fix most things. I took a non-working (timer failure) electric coffee maker, separated the upper water reservoir and used the warming base. Being bigger than the beverage warmer, it can handle larger projects. I put pennies under the board corners when doing the other side.

And that's my 4 cents worth. :-)

72 Stephen VE7NSD

On 18/04/2012 7:58 AM, Steven Weber wrote:
> I set it to 200 on the dial. Put the board on it, turn it on, let it
> warm up. There's usually a little wisp of smoke from the flux in the
> past when it gets up to temp and ready for the embosing gun.
>
> Steve
>
>> It's my understanding that electric griddles can be set much hotter
>> than a coffee warmer. How do you set yours, so you don't fry the board?
>>
>
>

8789. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 17:42:50 UTC
From: Michael Harnage
Topic: 8766 Message: 8789

Cash has a link to a pdf material sheet for the paste. It contains a temperature profile that will give you a good idea of what you need to do to melt the paste.

-mike/w1mt

>_____
>
>
>I confess that I asked the question because I wasn't seeing mention of
>the optimum temperature for the board, nor temperatures that would
>damage the board. Maybe it's mentioned in your video or on Cash Olsen's
>page?
>

8790. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 18:05:40 UTC
From: Stephen Wandling
Topic: 8766 Message: 8790

Hi Mike,

Cash's site has a couple of dead links, though his How To page is up. I didn't find the pdf that you referred to. The FAQ link goes to a blank page and maybe that was where the pdf was located?

I have copied Cash on this email, so we may hear from him.

72 Stephen VE7NSD

On 18/04/2012 10:42 AM, Michael Harnage wrote:
> Cash has a link to a pdf material sheet for the paste. It contains a temperature profile that will give you a good idea of what you need to do to melt the paste.
>
> -mike/w1mt
>
>

8791. RE: [AT_Sprint] Enclosures for ARS rigs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 18:08:54 UTC
From: Andy Gulbrandsen
Topic: 8784 Message: 8791

Check out Buckeye Shapeform. They make all kinds of extrusions, deep draw, and tins.

Andrew
KE7AHJ

-------- Original message --------
Subject: RE: [AT_Sprint] Enclosures for ARS rigs
From: Dale Putnam <daleputnam@hotmail.com>
To: AT Sprint <at_sprint@yahoogroups.com>,kenney@icehouse.net
CC:

Hey John,
Do the shafts reach to near the inside edge of the enclosure? IF so, then I have a cute way of fixing that... by putting a "button top" attached to the enclosure.
If you'd like to try them, let me know your address. k?

--... ...-- Dale - WC7S in Wy

I have been experimenting with different enclosures for the ATS rigs. PAC-TEC has some enclosures that can be modified so the ATS boards will fit. The biggest obstacle that I have encountered is that the ATS tactile switches were made to be the right length to be activated through the thin metal of an Altoids tin. The shafts are too short to go through the thickness of the material used in most plastic or metal enclosures. I will continue the quest. John, W7COI

TODAY(Beta) • Powered by Yahoo!
Hilarious song parody strikes a chord
Privacy Policy

8792. Re: Enclosures for ARS rigs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 18:19:59 UTC
From: k6jf_radio
Topic: 8784 Message: 8792

For one of my ATS-3Bs I just ordered tactile switches with longer stems from Mouser.

Jim K6JF

8793. Re: Enclosures for ARS rigs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 18:52:25 UTC
From: jgaffke
Topic: 8784 Message: 8793

Or maybe something from Hammond's 1455 line

8794. pcb heating cycles

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 20:05:57 UTC
From: William
Topic: 8794 Message: 8794

My last smt project (ATS4a) had two semiconductors that were bad and required replacement. There were also some soldering issues. It made me wonder if they were damaged by the repeated heating cycles when I used paste.

Steve has organized his build into semiconductor, resistor and capacitor placement. To me this means 3 heat cycles per side or 6 cycles total. Does anyone know how many cycles the components can safely handle? Would it make sense to place the semiconductors last if they are the most delicate? Does it help to populate an entire side before reflowing?

Bill Schmidt, WV1N

8795. container

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 21:01:22 UTC
From: cloud runner
Topic: 8795 Message: 8795

Very light, very available, ... if one wants to put the MTR, and its tuner in one box, AND its battery, maybe mount the whole thing on the pole ...

maybe an old VHS box. The material is even thin enough for the stock buttons.

PLUS, you get an award for recycling ;-)

72, Fred - KT5X

aka WS0TA

8796. Re: Enclosures for ARS rigs - Longer Stem Tactile Switches

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-18 21:53:56 UTC
From: Etienne Scott
Topic: 8784 Message: 8796

Jim -
Sounds like a great idea. Could you provide the Mouser part numbers here for everyone?
Thanks,
Etienne, K7ATN

--- In AT_Sprint@yahoogroups.com, "k6jf_radio" <jimf53@...> wrote:
>
> For one of my ATS-3Bs I just ordered tactile switches with longer stems from Mouser.
>
> Jim K6JF
>

8797. Re: Enclosures for ARS rigs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 00:22:45 UTC
From: jgaffke
Topic: 8784 Message: 8797

Maybe mount the MTR to the lid of the Hammond 1455J1201BK
with three Ericsson T610 batteries of mounted to the bottom side
of a PC board in the bottom slot of the box, each 60x36x5 mm.
http://www.dimensionsguide.com/cellphone-battery-size-chart/
Still have room for a tuner.
Jerry, KE7ER

8798. MTR Shipments

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 01:17:37 UTC
From: k1thp
Topic: 8798 Message: 8798

Have all the kits been shipped? Payment was accepted by PayPal a week ago and have not got my MTR kit.

8799. MTR troubleshooting question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 04:09:24 UTC
From: Tom
Topic: 8799 Message: 8799

I'm confused by something, hopefully someone can explain.
On page 15 of the manual which contains the voltage charts, P4 of U6 is indicted at 3.3v. This pin connects to the junction of C27 and C28, which in turn are tied to the +5v line. How can this be?
In addition, C33 and C20 are tied to the same point at 5v.
Here's where it gets strange. I measure 3.3v at P4 of U6 and at the junction of C27 and C28, but I measure 5v at the junction of C20 and C33 (which also ties to R13 BTW). If I measure the resistance between C20 and the junction of C27 and C28, I get 42.6K (looks like it should be 0 to me according to the schematic).
Am I missing something really simple here? None of this makes sense to me.
I got started down this path because I am only measuring 1.75v at P3 of U6, which connects to the other side of C28. Also, I am getting 0v at P16 of U6. All other U6 voltages are ok. Are these issues related?
Any help or explanation will be appreciated.
Thanks,
Tom

8800. Re: Solder Paste Sources?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 11:17:18 UTC
From: w1mt
Topic: 6623 Message: 8800

Followup: I got my solder paste order from CML Supply yesterday. Pretty fast service. I hope I can melt some paste this weekend.

So looks like we have two good places to order syringed paste: Cash Olsen and CML Supply.

-mike

--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:
> I just ordered some from cmlsupply.com. Never used them before, so we > shall see.

8801. Re: Solder Paste Sources?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 12:04:18 UTC
From: Jonathan
Topic: 6623 Message: 8801

W1MT and I got our CMLSupply Kester EP256 63/37 Paste on the same day. I paid about 14$ shipped for 6.2cc of solder paste with five extra tips in a protective container tube.

More solder paste than I will ever use, that's for sure.
Jonathan KC7FYS

8802. Swithching boost regulator

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 15:16:03 UTC
From: Steven
Topic: 8802 Message: 8802

I finally got a chance to try out a tiny boost regulator chip I bought a month or so ago. The LMR62014 by National Semi, min input, 2.7V, max output, 20 V and 1 A. Switching frequency of 1.6 MHz and in a SOT-23-5 package. Sounded ideal to boost a single Li-ion cell to 9V to power the MTR or other ATS rig. Since 1.6 MHz isn't harmonically related to any ham band, noise from the switcher isn't an issue.

Turns out it sort of works.

It seems the problem is the max output current is directly related to the input voltage. I should have read the data sheet a bit closer.

With an 8V output voltage (the closest I could get to 9V with the resistors I had on hand) the minimum input voltage required to keep the regulation to 8V during transmit is just over 4V. This is a bit too much to get from a single Li-ion cell.

However, three AA Alkalines at 4.5 V would work. Three Lithium AA's would allow 9V output no problem. Four cells would be even better.

A boost regulator has two disadvantages. One, it's not all that efficient. 70-80% depending on current output and amount of boost. Second, since power must be conserved, the current draw at the supply side is much higher than the output current. Peak currents can be very high.

So, maybe a better approch would be a buck regulator. In this case, the input current is actually less then the output current and the efficiency is much higher, typically 90% or better. Although it would take more batteries, they could be smaller than the ones needed for a boost regulator since the required current is less.

There is buck version of this simple switcher also available, so maybe I should order a few of those to try out too...

72, Steve KD1JV

8803. Re: [AT_Sprint] MTR Shipments

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 15:58:04 UTC
From: Steven Weber
Topic: 8798 Message: 8803

> Have all the kits been shipped? Payment was accepted by PayPal a week ago
> and have not got my MTR kit.
>

It probably went out yesterday. I took about 40 kits to the PO yesterday. I have a handfull of DX orders to go out today (they take longer to get ready with the silly customs forms to fill out, so they tend to be last, although a lot have already gone out). That will leave a few kits left to process, the ones which wanted parts for 80M.

Steve

8804. Re: [AT_Sprint] MTR troubleshooting question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 16:23:05 UTC
From: Steven Weber
Topic: 8799 Message: 8804

Rats, I forgot the change that on the schematic. Thats what happens when you recyle diagrams and voltage charts from previous editions to save work.

So, are you not getting any output from the chip? If so the usual problem is a bad connection at the reference oscillator, though there could be one at the DDS chip or assosiated parts.

Steve

> I'm confused by something, hopefully someone can explain.
> On page 15 of the manual which contains the voltage charts, P4 of U6 is
> indicted at 3.3v. This pin connects to the junction of C27 and C28, which
> in turn are tied to the +5v line. How can this be?
> In addition, C33 and C20 are tied to the same point at 5v.
> Here's where it gets strange. I measure 3.3v at P4 of U6 and at the
> junction of C27 and C28, but I measure 5v at the junction of C20 and C33
> (which also ties to R13 BTW). If I measure the resistance between C20 and
> the junction of C27 and C28, I get 42.6K (looks like it should be 0 to me
> according to the schematic).
> Am I missing something really simple here? None of this makes sense to me.
> I got started down this path because I am only measuring 1.75v at P3 of
> U6, which connects to the other side of C28. Also, I am getting 0v at P16
> of U6. All other U6 voltages are ok. Are these issues related?
> Any help or explanation will be appreciated.

8805. Re: MTR troubleshooting question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 16:38:15 UTC
From: jgaffke
Topic: 8799 Message: 8805

Tom, the ADS9834 can run on an AVDD of 3.3v or 5v, it doesn't care.
Board clearly has ADS9834 pins 4 and 5 tied together.
So adjust the schematics by cutting the vertical wire between
the node where C27,C28 join and the 5v rail above, then tie
pins 4 and 5 together of U6. Board is as Steve intended.
Jerry

8806. Re: [AT_Sprint] Re: MTR troubleshooting question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 16:47:51 UTC
From: Tom Moll
Topic: 8799 Message: 8806

Jerry, Steve,
That is what I had concluded since I also noticed that pins 4 and 5 were connected on the board - just looking for confirmation as this may confuse others as well.
I must have a bad connection somewhere as it does not appear that the AD9834 has any output at pin 16. I will have to reflow a few joints and see what happens - everything looks good to the eye, but these are pretty old eyes, even with magnification tools :-)
Unfortunately, my test equipment except for a voltmeter is still in storage from a move a while back - guess I may need to dig it out.
Thanks,
Tom

On Thu, Apr 19, 2012 at 4:38 PM, jgaffke <jgaffke@...> wrote:

> **
>
>
> Tom, the ADS9834 can run on an AVDD of 3.3v or 5v, it doesn't care.
> Board clearly has ADS9834 pins 4 and 5 tied together.
> So adjust the schematics by cutting the vertical wire between
> the node where C27,C28 join and the 5v rail above, then tie
> pins 4 and 5 together of U6. Board is as Steve intended.
> Jerry
>
>
>

8807. Re: MTR troubleshooting question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 16:54:10 UTC
From: jgaffke
Topic: 8799 Message: 8807

I don't think you will see output on 16 till you transmit.
When you go through the tune up procedure, do you hear the tone?
Jerry

8808. Re: Swithching boost regulator

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 17:09:08 UTC
From: Tim Goodrich
Topic: 8802 Message: 8808

I recently received a boost-buck regulator I ordered from ebay. I haven't tried it with my 3b yet, but I did connect it to my 10.5v (8aa rechargeable cells) pack and adjust the output all the way from 3v up to 30v. I'm not concerned about trying to boost a 6v pack to 12v or buck a 24v pack to 12v, but rather my goal was just to maintain a steady output at near max voltage (I set mine to 11.5v out) to keep my signal strong as the batteries deplete. Just an idea in case you want to give that one a try.

Tim

K6TW

8809. Re: [AT_Sprint] Re: Swithching boost regulator

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 17:33:48 UTC
From: Chris Fowler
Topic: 8802 Message: 8809

On 04/19/2012 01:09 PM, Tim Goodrich wrote:
>
>
> I recently received a boost-buck regulator I ordered from ebay. I
> haven?t tried it with my 3b yet, but I did connect it to my 10.5v (8aa
> rechargeable cells) pack and adjust the output all the way from 3v up to
> 30v. I?m not concerned about trying to boost a 6v pack to 12v or buck a
> 24v pack to 12v, but rather my goal was just to maintain a steady output
> at near max voltage (I set mine to 11.5v out) to keep my signal strong
> as the batteries deplete. Just an idea in case you want to give that one
> a try.
>

I've driven LED strip lights at 13.8v from a dead SLA that dropped to 4v
when the boost was attached. This would not last log, but it was neat
to see that happen.

8810. Re: MTR troubleshooting question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 17:37:26 UTC
From: Tom
Topic: 8799 Message: 8810

After touching up all connections on the reference osc and U6, the rig came to life and appears to be behaving as expected.
I can hear the osc at 10Mhz in another rx, and the bfo peaks (by ear). I am copying signals on 20m and the trimmers peak the noise on both 20 and 40m, and I see 4w out on the wattmeter when sending a string of dashes.
So, another MTR is alive! Now to fine tune and fully check it out.
This was my first project with this size of SM components, so it's a good feeling to see it alive! Hand soldered. Hope to make first qso with it later today.
Thanks,
Tom

print@...m, "jgaffke" <jgaffke@...> wrote:
>
> I don't think you will see output on 16 till you transmit.
> When you go through the tune up procedure, do you hear the tone?
> Jerry
>

8811. Re: Enclosures for ARS rigs - Longer Stem Tactile Switches

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 17:58:46 UTC
From: k6jf_radio
Topic: 8784 Message: 8811

Here you go:
612-TL1105B Tactile Switches 6.0X9.5MM 160G

--- In AT_Sprint@yahoogroups.com, "Etienne Scott" <climb2ski97215@...> wrote:
>
> Jim -
> Sounds like a great idea. Could you provide the Mouser part numbers here for everyone?
> Thanks,
> Etienne, K7ATN
>
> --- In AT_Sprint@yahoogroups.com, "k6jf_radio" <jimf53@> wrote:
> >
> > For one of my ATS-3Bs I just ordered tactile switches with longer stems from Mouser.
> >
> > Jim K6JF
> >
>

8812. Enclosure for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 20:14:37 UTC
From: Joseph Trombino, Jr
Topic: 8812 Message: 8812

> Still looking for a suitable enclosure for the MTR rig...with enough room for batteries (8 AA's)
>
> My preference is for a clam-shell type of cabinet ala the K2, RH series of radios...this type of enclosure permits access to both sides of the board at the same time.
>
> Any suggestions??
>
> 73, Joe W2KJ
> I QRP, therefore I am

8813. MTR Construction Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 20:51:04 UTC
From: kd5kxf
Topic: 8813 Message: 8813

I am building mine tonight and using soldering paste. Should I hand solder the 40mhz Oscillator Pack? And if so, can I get away with doing it before I put all the SMT stuff on?

Thanks in advance,

Mike KD5KXF

8814. Re: MTR Shipments

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 21:39:10 UTC
From: David
Topic: 8798 Message: 8814

Hi Steve, mine arrived Australia yesterday. Thanks mate.
Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
>
>
> > Have all the kits been shipped? Payment was accepted by PayPal a week ago
> > and have not got my MTR kit.
> >
> It probably went out yesterday. I took about 40 kits to the PO yesterday. I
> have a handfull of DX orders to go out today (they take longer to get ready
> with the silly customs forms to fill out, so they tend to be last, although
> a lot have already gone out). That will leave a few kits left to process,
> the ones which wanted parts for 80M.
>
> Steve
>

8815. Re: [AT_Sprint] Re: Swithching boost regulator

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 23:39:10 UTC
From: mstangelo@comcast.net
Topic: 8802 Message: 8815

Tim,

I'm interested in one. Can you provide the part number and ebay seller information?

Thanks and 73,

Mike N2MS

----- Original Message -----
From: Tim Goodrich <tim@...>
To: AT Sprint <AT_Sprint@yahoogroups.com>
Sent: Thu, 19 Apr 2012 17:09:08 -0000 (UTC)
Subject: [AT_Sprint] Re: Swithching boost regulator

I recently received a boost-buck regulator I ordered from ebay. I haven’t tried it with my 3b yet, but I did connect it to my 10.5v (8aa rechargeable cells) pack and adjust the output all the way from 3v up to 30v. I’m not concerned about trying to boost a 6v pack to 12v or buck a 24v pack to 12v, but rather my goal was just to maintain a steady output at near max voltage (I set mine to 11.5v out) to keep my signal strong as the batteries deplete. Just an idea in case you want to give that one a try.

Tim
K6TW

8816. MTR QSO

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-19 23:51:59 UTC
From: Tom
Topic: 8816 Message: 8816

This forum seems to be more about building than operating, so I hope I'm not being too indulgent by relating this here.
I just enjoyed my first QSO with my MTR on 40m. After seeing it put out 4.5w with a 12v supply, I hooked it up to the "dead" 9v battery I took out of my multi-meter a few days ago to see what it would do. Only 1/2w output on the meter, but I heard WB9VRP in IN calling CQ on 7030 so answered him. Came right back with a 579 and we had a nice 20 minute chat. VA to IN may not be rare dx for a first QSO, but it was a thrill none the less. The wattmeter needle was barely moving by the end of the QSO, but he continued to have solid copy on me. It's nice to see the rig continue to perform so nicely on a failing power source!
The receiver sounds great, and so does the keying when listening to it on another radio. This is going to be a very fun little radio. I'm tickled to have it done in time for a trip I will be making to the high desert of central Oregon (Bend) soon - I hope I can get to the top of some of the mountains with the MTR while there.
Thanks for a neat radio Steve!
73, Tom N0BS

8817. Re: [AT_Sprint] MTR QSO

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 00:03:56 UTC
From: john dean
Topic: 8816 Message: 8817

Hello Tom
I am a operator not a builder and I would very much like to a very complete ATS so I could use it on ultra light trips. I could pay with paypal.
Thanks John kb7hnf

--- On Thu, 4/19/12, Tom <tmoll150@...> wrote:

From: Tom <tmoll150@...>
Subject: [AT_Sprint] MTR QSO
To: AT_Sprint@yahoogroups.com
Date: Thursday, April 19, 2012, 7:51 PM

This forum seems to be more about building than operating, so I hope I'm not being too indulgent by relating this here.

I just enjoyed my first QSO with my MTR on 40m. After seeing it put out 4.5w with a 12v supply, I hooked it up to the "dead" 9v battery I took out of my multi-meter a few days ago to see what it would do. Only 1/2w output on the meter, but I heard WB9VRP in IN calling CQ on 7030 so answered him. Came right back with a 579 and we had a nice 20 minute chat. VA to IN may not be rare dx for a first QSO, but it was a thrill none the less. The wattmeter needle was barely moving by the end of the QSO, but he continued to have solid copy on me. It's nice to see the rig continue to perform so nicely on a failing power source!

The receiver sounds great, and so does the keying when listening to it on another radio. This is going to be a very fun little radio. I'm tickled to have it done in time for a trip I will be making to the high desert of central Oregon (Bend) soon - I hope I can get to the top of some of the mountains with the MTR while there.

Thanks for a neat radio Steve!

73, Tom N0BS

8818. Re: [AT_Sprint] MTR Construction Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 00:36:22 UTC
From: Steven Weber
Topic: 8813 Message: 8818

The only part you should probably hand solder is the LED display. It's the only part they send me in a mosture proof bag with a humidity indicator card inside. That's an indication there could be issues when it is heated in an oven as is done with commercial assembly, though I don't think the way we heat it up is going to be problem.

Steve

>I am building mine tonight and using soldering paste. Should I hand solder
>the 40mhz Oscillator Pack? And if so, can I get away with doing it before
>I put all the SMT stuff on?
>

8819. Re: [AT_Sprint] Re: Swithching boost regulator

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 01:02:16 UTC
From: Johnny Matlock
Topic: 8802 Message: 8819

*Guys FYI:
Here is one that I bought from Ebay a few months back.
Terry WA0ITP recommended it. I don't have a clue to the efficiency of the
regulator, but I do know it works well the my AT Sprint 3, and my ATS 4b.
*DC-DC Adjustable boost buck regulator Power supply C28 (110620869139)
Give it a look and see what you think.
72
Johnny AC0BQ
*
*
On Thu, Apr 19, 2012 at 6:39 PM, <mstangelo@...> wrote:

> **
>
>
> Tim,
>
> I'm interested in one. Can you provide the part number and ebay seller
> information?
>
> Thanks and 73,
>
> Mike N2MS
>
>
> ----- Original Message -----
> From: Tim Goodrich <tim@...>
> To: AT Sprint <AT_Sprint@yahoogroups.com>
> Sent: Thu, 19 Apr 2012 17:09:08 -0000 (UTC)
> Subject: [AT_Sprint] Re: Swithching boost regulator
>
>
>
>
>
>
>
>
>
>
> I recently received a boost-buck regulator I ordered from ebay. I
> haven’t tried it with my 3b yet, but I did connect it to my 10.5v (8aa
> rechargeable cells) pack and adjust the output all the way from 3v up to
> 30v. I’m not concerned about trying to boost a 6v pack to 12v or buck a 24v
> pack to 12v, but rather my goal was just to maintain a steady output at
> near max voltage (I set mine to 11.5v out) to keep my signal strong as the

> batteries deplete. Just an idea in case you want to give that one a try.
>
>
>
> Tim
>
> K6TW
>
>
>

8820. Re: beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 03:03:31 UTC
From: poikaa
Topic: 8766 Message: 8820

I am using an old Fondue hotplate with a built-in temperature regulator. A drop of water is a good indicator for temperature also! I practiced on a few junker SMD boards, de-soldering, clean-up then re-soldering on the same board. Works like a champ and practice makes for better temperature control.
One could always buy an electric fry pan to use as a board heater and the non-slip surface may help. It too will have a temperature control.
I frown on beverage heaters as they are so small and because of this larger boards do not fit and they also lose their heat momentum much faster. The fondue is about seven inches (15 cms) across and fry pans can be as much as 15 inches (25 cms) or more.

73 Rod KB8DNS

--- In AT_Sprint@yahoogroups.com, John Shadle <shadle@...> wrote:
>
> Hi all,
> I was wondering if anyone has a good, reliable beverage warmer they
> can recommend. I picked up this device at a Radio Shack sale some time
> in the past, but the board doesn't touch the warmer, so the heat is
> never transferred.
>
> http://www.tulsasuperads.com/electronics_For_Sale/C513A274151P5/JOURNEY_S_EDGE_2_0_USB_Beverage_Warmer.aspx
>
> Is there some way I should "modify" the beverage warmer so that it
> touches the board, or are there other beverage warmers out there that
> are better?
>
> In anticipation of the MTR kit arriving, I did some solder paste work
> with a few other projects that came in the mail recently. I'll never
> go back to soldering by hand of SMD parts, when possible. Of course, I
> was only using the hot air gun and not a beverage warmer beneath.
> Worked fine, but I can imagine using the warmer would decrease the
> time a bit.
>
> Thanks.
> -john W4PAH
> Madison, WI
>

8821. Heating PC boards for SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 03:15:27 UTC
From: Joseph Trombino, Jr
Topic: 8821 Message: 8821

Never having used solder paste in building an SMD rig (hand soldering only so far) I wonder why the PC board needs to be heated using a hot plate, etc??

Thought that using solder paste and a hot air gun would do the trick in getting the solder melted to the board and the parts.

Is heating the PC board an absolute requirement???

73, Joe W2KJ
I QRP, therefore I am

8822. Re: MTR QSO

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 05:38:04 UTC
From: Roland
Topic: 8816 Message: 8822

Hi Tom, As the home page greeting says, It's a place to share your adventures. Personally, I like reading about other ops experiences.
73's n5vwn Roland
--- In AT_Sprint@yahoogroups.com, "Tom" <tmoll150@...> wrote:
>
> This forum seems to be more about building than operating, so I hope I'm not being too indulgent by relating this here.
> I just enjoyed my first QSO with my MTR on 40m. After seeing it put out 4.5w with a 12v supply, I hooked it up to the "dead" 9v battery I took out of my multi-meter a few days ago to see what it would do. Only 1/2w output on the meter, but I heard WB9VRP in IN calling CQ on 7030 so answered him. Came right back with a 579 and we had a nice 20 minute chat. VA to IN may not be rare dx for a first QSO, but it was a thrill none the less. The wattmeter needle was barely moving by the end of the QSO, but he continued to have solid copy on me. It's nice to see the rig continue to perform so nicely on a failing power source!
> The receiver sounds great, and so does the keying when listening to it on another radio. This is going to be a very fun little radio. I'm tickled to have it done in time for a trip I will be making to the high desert of central Oregon (Bend) soon - I hope I can get to the top of some of the mountains with the MTR while there.
> Thanks for a neat radio Steve!
> 73, Tom N0BS
>

8823. Re: Heating PC boards for SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 06:43:24 UTC
From: poikaa
Topic: 8821 Message: 8823

I do not think it is requirement to use a hot plate to heat the board but is is a way to mass solder the components. It is a high adrenaline experience to solder each leg and pad. A hot plate makes this easy to do and most of the time the parts align them selves.
Not every one has use of a hot air rework station and the one draw back here is that there is a chance of blowing the tiny parts right off the board.
I assembled my ATS-3 in 2005 by hand and it worked very good, the rig fired right up and worked straight off! I fact I am still impressed how well the design is as the rig receives almost continuous coverage and even will transmit on 160 meters!
As components become smaller and the leads disappear under the part, I will be using hot plates or hot air. I just made a purchase of a hot air station and it is slick!

73 Rod KB8DNS

--- In AT_Sprint@yahoogroups.com, "Joseph Trombino, Jr" <jotrom@...> wrote:
>
> Never having used solder paste in building an SMD rig (hand soldering only so far) I wonder why the PC board needs to be heated using a hot plate, etc??
>
> Thought that using solder paste and a hot air gun would do the trick in getting the solder melted to the board and the parts.
>
> Is heating the PC board an absolute requirement???
>
> 73, Joe W2KJ
> I QRP, therefore I am
>

8824. Re: MTR Shipments

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 07:00:19 UTC
From: ok2mr
Topic: 8798 Message: 8824

I would like to thank Steve for excellent job done regarding shipping. He is the first one who managed to outsmart Czech customs and Czech post so the envelope landed directly in my mailbox without any hassles with the above stated criminal organizations. So instead of three or more weeks delivery (out of which three or more weeks time is consumed by customs and Czech post) it took only 5 (five) days!!!! The US stamp is 12. April and I found it in my mailbox on April the 17th. Unbelievable! Plus there was weekend between 12th and 17th. I started the building process on 18th and it is almost ready today, see photo section.

--- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
>
> Have all the kits been shipped? Payment was accepted by PayPal a week ago and have not got my MTR kit.
>

8825. Re: [AT_Sprint] Heating PC boards for SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 11:03:32 UTC
From: Michael Harnage
Topic: 8821 Message: 8825

It is not an absolute necessity. You can accomplish the same thing with just the hot air. The key is to warm it to the soaking zone temp for a minute or two before heating to the reflow zone. Check out the material spec sheet for Kester EP 256 solder paste.

-mike/w1mt

>_____
>
>
Never having used solder paste in building an SMD rig (hand soldering only so far) I wonder why the PC board needs to be heated using a hot plate, etc??
>
>Thought that using solder paste and a hot air gun would do the trick in getting the solder melted to the board and the parts.
>
>Is heating the PC board an absolute requirement???
>
>

8826. MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 13:16:15 UTC
From: Sid Leben
Topic: 8670 Message: 8826

Well this is my first attempt at SMT. As I get older I am realizing that my ability to build with thru-hole devices is waning, as most items are surface mount.
I am hand soldering the MTR and have all the IC's on the bottom & half of the resistors mounted. So far so good. Just lost (1) item so far, Q1. I'll get that when I am finished as I will probably have add'l "run aways"!

If I were younger, I would solder paste & hot plate. But for now, this is a very challenging endeavor, but I will get it on the air !!!!

Kudos to Steve, and all of you, who have made this a very interesting group..

Sid
KC2EE

8827. Re: [AT_Sprint] MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 13:24:11 UTC
From: John Shadle
Topic: 8670 Message: 8827

Having built an ATS-3B with the "place one part at a time method", and having practiced a bit with the solder paste method prior to my MTR arriving, I can say that the solder paste method is far easier. Now that you're into your build, go ahead and finish it up that way; however, I strongly consider using the hot air/solder paste method next time.

I thought it was tricky for the longest time, but it's *far* easier than doing it by hand--especially with the ICs.

-john W4PAH
Madison, WI

On Fri, Apr 20, 2012 at 9:16 AM, Sid Leben <sid@...> wrote:

> **
>
>
> Well this is my first attempt at SMT. As I get older I am realizing that
> my ability to build with thru-hole devices is waning, as most items are
> surface mount.
> I am hand soldering the MTR and have all the IC's on the bottom & half of
> the resistors mounted. So far so good. Just lost (1) item so far, Q1.
> I'll get that when I am finished as I will probably have add'l "run
> aways"!
>
> If I were younger, I would solder paste & hot plate. But for now, this is
> a very challenging endeavor, but I will get it on the air !!!!
>
> Kudos to Steve, and all of you, who have made this a very interesting
> group..
>
> Sid
> KC2EE
>
>
>

8828. Re: MTR Shipments

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 18:27:45 UTC
From: andrew.cross
Topic: 8798 Message: 8828

Thanks Steve, my 'envelope of fun' arrived today in Paris, France and gratefully also managed to slip below the customs radar!

--- In AT_Sprint@yahoogroups.com, "ok2mr" <martin.riha@...> wrote:
>
> I would like to thank Steve for excellent job done regarding shipping. He is the first one who managed to outsmart Czech customs and Czech post so the envelope landed directly in my mailbox without any hassles with the above stated criminal organizations. So instead of three or more weeks delivery (out of which three or more weeks time is consumed by customs and Czech post) it took only 5 (five) days!!!! The US stamp is 12. April and I found it in my mailbox on April the 17th. Unbelievable! Plus there was weekend between 12th and 17th.
> I started the building process on 18th and it is almost ready today, see photo section.
>
>
> --- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@> wrote:
> >
> > Have all the kits been shipped? Payment was accepted by PayPal a week ago and have not got my MTR kit.
> >
>

8829. Looking forward to getting my MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 18:52:00 UTC
From: Colin
Topic: 8829 Message: 8829

I'm new to the group, have looked at the ATS rigs before, but I never really had the budget (or nerves to take on the import radar!).

A guy here in the UK posted about the MTR on the SOTAwatch reflector - after reading about the MTR, I knew that I needed to have one of these! I have been playing with RockMites for SOTA in the past few months and had great results but sometimes you just feel like having better filtering or the ability to QSY.

I thought I haad initially 'missed the boat' as I hesitated in ordering and then had to convince my XYL that I really NEEDED another radio :-)
Steve confirmed to me last Sunday that my order was successful. Reading all the comments so far and studying the manual is really making me look forward to seeing the package arrive on my door mat!

I intend to hand solder all the components - I am at home with this method. I have been building an SDR today using 0805 size parts and I was really pleased with my work. A Hendricks SMK-2 arrived yesterday, so I will build that as further practice, although the SMDs are quite large looking (1206?)!

I can't wait to take my MTR on SOTA outings!
72
Colin
M0CGH

8830. Re: [AT_Sprint] Looking forward to getting my MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 19:52:00 UTC
From: Tom Moll
Topic: 8829 Message: 8830

Welcome Colin,
I'm new here too, and as a proud owner of an MTR, please let me reassure your XYL that you DO, in fact NEED to have one of these rigs.
After building half a dozen SoftRocks, this was my first ATS build, and I was a little anxious about working with the smaller parts too - my 62 yr old eyes aren't the greatest any more. In reality, I think the smaller parts are actually easier to hand solder than the larger ones - they just go down real quick and easy, and the quality of Steve's board is so good.
Have fun building and climbing mountains with your MTR! Hope to work you MTR to MTR from one of our mountains here in VA.
73, Tom N0BS

On Fri, Apr 20, 2012 at 2:52 PM, Colin <m0cgh@...> wrote:

> **
>
>
> I'm new to the group, have looked at the ATS rigs before, but I never
> really had the budget (or nerves to take on the import radar!).
>
> A guy here in the UK posted about the MTR on the SOTAwatch reflector -
> after reading about the MTR, I knew that I needed to have one of these! I
> have been playing with RockMites for SOTA in the past few months and had
> great results but sometimes you just feel like having better filtering or
> the ability to QSY.
>
> I thought I haad initially 'missed the boat' as I hesitated in ordering
> and then had to convince my XYL that I really NEEDED another radio :-)
> Steve confirmed to me last Sunday that my order was successful. Reading
> all the comments so far and studying the manual is really making me look
> forward to seeing the package arrive on my door mat!
>
> I intend to hand solder all the components - I am at home with this
> method. I have been building an SDR today using 0805 size parts and I was
> really pleased with my work. A Hendricks SMK-2 arrived yesterday, so I will
> build that as further practice, although the SMDs are quite large looking
> (1206?)!
>
> I can't wait to take my MTR on SOTA outings!
> 72
> Colin
> M0CGH
>
>
>

8831. MTR received today

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 20:31:07 UTC
From: charles
Topic: 8831 Message: 8831

Thanks steve!

8832. Re: [AT_Sprint] Digest Number 1646

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 20:42:56 UTC
From: Frandy Johnson
Topic: 8832 Message: 8832

I just received my MTR kit. There seem to be multiple tips and corrections out on it. Is there one source that has them all together in one place?

Frandy, N1FJ

[Entire digest deleted. Please don't reply with an entire digest attached.]

8833. Re: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 21:29:13 UTC
From: russellhulett
Topic: 8670 Message: 8833

I soldered my ATS3B by hand. Am contemplating using solder paste for the MTR, but wondering whether obtaining the tools is worthwhile for one project, and whether some simpler SMD work would be needed before trying on the MTR.

Curt KB5JO

8834. MTR manual corrections.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 22:08:08 UTC
From: Steven Weber
Topic: 8834 Message: 8834

The manual in the files section has *most* of the corrections in it, at least as far as actual construction goes. I'll up load what I belive is the final, definative, error free manual later tonight. I think the only thing which was left to correct was the DDS voltage table and the 5V power connection shown on the schematic, which should have been to the 3.3V bus

Steve

I just received my MTR kit. There seem to be multiple tips and corrections out on it. Is there one source that has them all together in one place? Frandy, N1FJ [Entire digest deleted. Please don't reply with an entire digest attached.]

8835. Re: [AT_Sprint] Looking forward to getting my MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-20 23:30:42 UTC
From: Peter Martin
Topic: 8829 Message: 8835

On Fri, Apr 20, 2012 at 7:52 PM, Colin <m0cgh@...> wrote:

> I'm new to the group, have looked at the ATS rigs before, but I never
> really had the budget (or nerves to take on the import radar!).
>
> A guy here in the UK posted about the MTR on the SOTAwatch reflector -
>

Colin that would have been me!

I'm still awaiting my MTR which will become my main SOTA rig . That means I can keep the ATS4 as my main home rig! I kid you not. I have not used another HF rig this year and have racked up 270 SOTA chaser points on my ATS4.
In the field the ATS4 has been on 4 activations with 250 QSOs in the log and 37 DXCC. It's a super SOTA rig. I've no reason to doubt the MTR won't be every bit as good.

http://youtu.be/SqgS0rQvaus

Look forward to working you on the MTR S2S..
Off in a few days time to GI and taking the ATS4 with me, hoping that time and weather will allow a couple of GI activations.
That could be a first for one of Steve's rigs.

73 Pete
G4ISJ

8836. MTR arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 00:43:41 UTC
From: n4wdc@va.metrocast.net
Topic: 8836 Message: 8836

Mine arrived today.
Mailed Wednesday, arrived Friday.
Now how do I get my wife to leave for a few days!!!!!
Thanks Steve.
David N4WDC

8837. Re: [AT_Sprint] Looking forward to getting my MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 00:49:19 UTC
From: n4wdc@va.metrocast.net
Topic: 8829 Message: 8837

Pete G4ISJ,
What is "GI?"
I'm not familiar with those initials.
David N4WDC

On Fri 04/20/12 19:30 , Peter Martin paradoxpete.pdm@... sent:
> On Fri, Apr 20, 2012 at 7:52 PM, Colin wrote:
> I'm new to the group, have looked at the ATS rigs before, but I
> never really had the budget (or nerves to take on the import radar!).
> A guy here in the UK posted about the MTR on the SOTAwatch reflector
> -
>
> Colin that would have been me!
>
> I'm still awaiting my MTR which will become my main SOTA rig .
> That means I can keep the ATS4 as my main home rig! I kid you not. I
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> chaser points on my ATS4.
> In the field the ATS4 has been on 4 activations with 250 QSOs in the
> log and 37 DXCC. It's a super SOTA rig. I've no reason to
> doubt the MTR won't be every bit as good.
>
> http://youtu.be/SqgS0rQvaus [2]
> Look forward to working you on the MTR S2S..
> Off in a few days time to GI and taking the ATS4 with me, hoping that
> time and weather will allow a couple of GI activations.
> That could be a first for one of Steve's rigs.
> 73 Pete
> G4ISJ
>
>
> Links:
> ------
> [2] http://youtu.be/SqgS0rQvaus
> [5]
> http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJxaHBxN3VwBF9TAzk3M
> zU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM4ODM1BHNlYwNm
> dHIEc2xrA3JwbHkEc3RpbWUDMTMzNDk2NDY0Mw--?act=reply&messageNum=8835[6]
> http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJmZmJmamRrBF9TAzk3M
> zU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNudHBj
> BHN0aW1lAzEzMzQ5NjQ2NDM-[7]
> http://groups.yahoo.com/group/AT_Sprint/message/8829;_ylc=X3oDMTM1MWc1djJiB
> F9TAzk3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM4ODM1
> BHNlYwNmdHIEc2xrA3Z0cGMEc3RpbWUDMTMzNDk2NDY0MwR0cGNJZAM4ODI5[8]
> http://groups.yahoo.com/group/AT_Sprint/members;_ylc=X3oDMTJnMWdoZGwyBF9TAz

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> k3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2b
> WJycwRzdGltZQMxMzM0OTY0NjQz?o=6[9]
> http://groups.yahoo.com/group/AT_Sprint/spnew;_ylc=X3oDMTJnYWk0ZHFlBF9TAzk3
> MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2cGh
> vdARzdGltZQMxMzM0OTY0NjQz[10]
> http://groups.yahoo.com/group/AT_Sprint/files;_ylc=X3oDMTJoM3A1YzhlBF9TAzk3
> MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Zml
> sZXMEc3RpbWUDMTMzNDk2NDY0Mw--[11]
> http://groups.yahoo.com/group/AT_Sprint;_ylc=X3oDMTJmbTF1aHM2BF9TAzk3MzU5Nz
> E0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0a
> W1lAzEzMzQ5NjQ2NDM-[12]
> http://groups.yahoo.com/;_ylc=X3oDMTJlYWhjM21lBF9TAzk3NDc2NTkwBGdycElkAzE4M
> DM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTMzNDk2NDY0
> Mw--[16] http://docs.yahoo.com/info/terms/
>
>
```

8838. Re: [AT_Sprint] MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 02:31:49 UTC
From: Steve
Topic: 8670 Message: 8838

The tools to assemble a SMT project like the MTR with solder paste solder are not that expensive. I purchased an "embossing gun" at the local craft store for about $12. This is the gentle hot air source. A small griddle was snagged somewhere else - I forget - for I think about $20. I had a non-contact IR thermometer in my tool kit already, but they are available for less than $50 (if you want to monitor griddle temperature more closely than the "sizzling water drop" method).

One could buy a "SMT rework station" for several hundred dollars - but this is truly overkill. However, I've been tempted.....!

Steve
aa8af

On Apr 20, 2012, at 5:29 PM, russellhulett wrote:

> I soldered my ATS3B by hand. Am contemplating using solder paste for the MTR, but wondering whether obtaining the tools is worthwhile for one project, and whether some simpler SMD work would be needed before trying on the MTR.
>

8839. MTR rig and solder paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 02:33:23 UTC
From: Joseph Trombino, Jr
Topic: 8839 Message: 8839

I'm considering using solder paste for building my MTR rig...not going to use the hot plate method but thinking about using my heat gun.

I have an Ungar heat gun with two heat settings....790F and 1200F.....which of these settings would give me the best results???

Many thanks for any info.

73, Joe W2KJ

8840. Re: [AT_Sprint] MTR rig and solder paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 02:50:57 UTC
From: Steven Weber
Topic: 8839 Message: 8840

> I have an Ungar heat gun with two heat settings....790F and
> 1200F.....which of these settings would give me the best results???

NO NO NO NO NO NO !!

DO NOT use a heat gun. The results will be a disaster and fit only for the trash can.

First, it will blow the parts off the board and if any happen to stay put, you will melt them in no time! SMT parts do not like sudden changes in temperature, which is why it is recommened to let the board heat relatively slowly and uniformly across the board by using a hot plate. The embossing heat gun is low heat and has a gental air flow, a fraction of what a "normal" heat gun (or hair dryer) produces. It also produces a fairly focused air flow. Just enough hot air is used to rise the temperature of the past to melting which is about 450 degrees.

Steve

8841. New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 02:57:51 UTC
From: AT_Sprint@yahoogroups.com
Topic: 154 Message: 8841

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the AT_Sprint
group.

File : /MTR /MTRmanual42012.pdf
Uploaded by : kd1jv <steve.kd1jv@...>
Description : updated as of 4/20/12

You can access this file at the URL:
http://groups.yahoo.com/group/AT_Sprint/files/MTR%20/MTRmanual42012.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

kd1jv <steve.kd1jv@...>

8842. Re: [AT_Sprint] MTR rig and solder paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 02:59:50 UTC
From: Steve
Topic: 8839 Message: 8842

Joe,
I don't have experience with the Ungar heat gun, but I would approach soldering with *great caution* with this tool. I have a Black & Decker heat gun that looks similar and is appropriate for stripping paint, but I foresee a couple of problems using it for SMT work:
- higher velocity hot air blow may literally blow the parts off your board
- solder paste melts at about 360-370F, I'm thinking at 1200F you may literally blister and/or melt the circuit board and components - the lower temperature may be more appropriate, but lots of *caution* keeps coming to mind

The whole soldering process with the hot plate/embossing gun is designed to preheat the board/paste/components with the hot plate to around 200F, then gently nudge the temperature up to the solder melting point - and back quickly off once solder has flowed.

So back to your question, my inclination is to say "neither temperature - the Ungar tool will cook your work!"

If you proceed, try to figure out a way to test it - perhaps melting some solder paste applied to a reject circuit board from something else?

Steve
aa8af

On Apr 20, 2012, at 10:33 PM, Joseph Trombino, Jr wrote:

> I'm considering using solder paste for building my MTR rig...not going to use the hot plate method but thinking about using my heat gun.
>
> I have an Ungar heat gun with two heat settings....790F and 1200F.....which of these settings would give me the best results???
>

8843. Re: [AT_Sprint] Looking forward to getting my MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 03:19:29 UTC
From: Lew Paceley
Topic: 8829 Message: 8843

Northern Ireland.
73,
Lew
K7GO
MT

On Fri, Apr 20, 2012 at 6:49 PM, <n4wdc@...> wrote:

> Pete G4ISJ,
> What is "GI?"
> I'm not familiar with those initials.
> David N4WDC
>
>
> On Fri 04/20/12 19:30 , Peter Martin paradoxpete.pdm@... sent:
> > On Fri, Apr 20, 2012 at 7:52 PM, Colin wrote:
> > I'm new to the group, have looked at the ATS rigs before, but I
> > never really had the budget (or nerves to take on the import radar!).
> > A guy here in the UK posted about the MTR on the SOTAwatch reflector
> > -
> >
> > Colin that would have been me!
> >
> > I'm still awaiting my MTR which will become my main SOTA rig .
> > That means I can keep the ATS4 as my main home rig! I kid you not. I
> > have not used another HF rig this year and have racked up 270 SOTA
> > chaser points on my ATS4.
> > In the field the ATS4 has been on 4 activations with 250 QSOs in the
> > log and 37 DXCC. It's a super SOTA rig. I've no reason to
> > doubt the MTR won't be every bit as good.
> >
> > http://youtu.be/SqgS0rQvaus [2]
> > Look forward to working you on the MTR S2S..
> > Off in a few days time to GI and taking the ATS4 with me, hoping that
> > time and weather will allow a couple of GI activations.
> > That could be a first for one of Steve's rigs.
> > 73 Pete
> > G4ISJ
> >
> >
> > Links:
> > ------
> > [2] http://youtu.be/SqgS0rQvaus
> > [5]
> >

> http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJxaHBxN3VwBF9TAzk3M
> >
> zU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM4ODM1BHNlYwNm
> > dHIEc2xrA3JwbHkEc3RpbWUDMTMzNDk2NDY0Mw--?act=reply&messageNum=8835[6]
> >
> http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJmZmJmamRrBF9TAzk3M
> >
> zU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNudHBj
> > BHN0aW1lAzEzMzQ5NjQ2NDM-[7]
> >
> http://groups.yahoo.com/group/AT_Sprint/message/8829;_ylc=X3oDMTM1MWc1djJiB
> >
> F9TAzk3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM4ODM1
> > BHNlYwNmdHIEc2xrA3Z0cGMEc3RpbWUDMTMzNDk2NDY0MwR0cGNJZAM4ODI5[8]
> >
> http://groups.yahoo.com/group/AT_Sprint/members;_ylc=X3oDMTJnMWdoZGwyBF9TAz
> >
> k3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2b
> > WJycwRzdGltZQMxMzM0OTY0NjQz?o=6[9]
> >
> http://groups.yahoo.com/group/AT_Sprint/spnew;_ylc=X3oDMTJnYWk0ZHFlBF9TAzk3
> >
> MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2cGh
> > vdARzdGltZQMxMzM0OTY0NjQz[10]
> >
> http://groups.yahoo.com/group/AT_Sprint/files;_ylc=X3oDMTJoM3A1YzhlBF9TAzk3
> >
> MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Zml
> > sZXMEc3RpbWUDMTMzNDk2NDY0Mw--[11]
> >
> http://groups.yahoo.com/group/AT_Sprint;_ylc=X3oDMTJmbTF1aHM2BF9TAzk3MzU5Nz
> >
> E0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0a
> > W1lAzEzMzQ5NjQ2NDM-[12]
> >
> http://groups.yahoo.com/;_ylc=X3oDMTJlYWhjM21lBF9TAzk3NDc2NTkwBGdycElkAzE4M
> >
> DM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTMzNDk2NDY0
> > Mw--[16] http://docs.yahoo.com/info/terms/
> >
> >
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

8844. Re: [AT_Sprint] MTR rig and solder paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 03:29:02 UTC
From: Gil WA5YKK
Topic: 8839 Message: 8844

> I have an Ungar heat gun with two heat settings....790F and
> 1200F.....which of these settings would give me the best results???

NO NO NO NO NO NO !!

DO NOT use a heat gun. The results will be a disaster and fit only for the trash can.

First, it will blow the parts off the board and if any happen to stay put, you will melt them in no time! SMT parts do not like sudden changes in temperature, which is why it is recommened to let the board heat relatively slowly and uniformly across the board by using a hot plate. The embossing heat gun is low heat and has a gental air flow, a fraction of what a "normal" heat gun (or hair dryer) produces. It also produces a fairly focused air flow. Just enough hot air is used to rise the temperature of the past to melting which is about 450 degrees.

Steve

Steve;

Thanks for that update warning, I found an "embossing heat gun" that looks and feels like something which is intended to just "lightly melt thin plastic onto art mold areas", but I haven't tried using it on solder or solder paste.

My next item is to find a hot plate that is recommended, that's an item which I've never experienced, either. Looks like I'll do some searching on Amazon or the Internet, to get ready for the day that I can practice with a few things that need to be looked at.

Here I was, pencil soldering iron on the bench, ready to send really hot points from a spot to whatever SMT part is in mind, and it appears that I'd be frying almost anything I put some heat to! I'll make the transition from "Elecraft, give it plenty of heat for the tiny job", to "little heat gun, just touch the part with a gnat's breath".

Thanks, 73's
Gil WA5YKK

(Taking a pill for heart vessels, get rid of clots, a pill to hold down heart attack pains, a blood pressure pill, one for arthritis, and one for arthritic pains. Leaves me with less $$ in the bank for soldersmoke pleasures!)

8845. Re: [AT_Sprint] MTR rig and solder paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 04:24:06 UTC
From: Joseph Trombino, Jr
Topic: 8839 Message: 8845

Many thanks for the input/suggestions about not using a heat gun with solder paste.

Will have to investigate a hot plate and embossing gun if I decide to go with the solder paste method.

73, Joe W2KJ
I QRP, therefor I am

8846. RE: [AT_Sprint] MTR rig and solder paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 04:33:50 UTC
From: Ken Lotts
Topic: 8839 Message: 8846

Just a reminder that ovens & paste are not the only way..
As long as you are not mass producing or in a hurry, Old fashioned soldering works on SMT projects just fine

I have enjoyed building several ATS projects with just a soldering iron and a hand made "Duffus"
BTW, I wear a 4x magnifier hood when doing this.
Wick gets used a little especially on the real crowded IC pins. The end result always looks supurb.

Here is a duffus on my work bench..

Here it is pinning down some work ..

Here is a close in on the duffus construction..
that is just a clothes hangar and a fishing weight and a ball point pen spring holding a toothpick
(not my design, I think I stole the design from this list a long time back)

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com]On Behalf Of Gil WA5YKK
Sent: Friday, April 20, 2012 8:29 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MTR rig and solder paste construction

> I have an Ungar heat gun with two heat settings....790F and
> 1200F.....which of these settings would give me the best results???

NO NO NO NO NO NO !!

DO NOT use a heat gun. The results will be a disaster and fit only for the trash can.

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slowly and uniformly across the board by using a hot plate. The embossing heat gun is low heat and has a gental air flow, a fraction of what a "normal" heat gun (or hair dryer) produces. It also produces a fairly focused air flow. Just enough hot air is used to rise the temperature of the past to melting which is about 450 degrees.

Steve

Steve;

Thanks for that update warning, I found an "embossing heat gun" that looks and feels like something which is intended to just "lightly melt thin plastic onto art mold areas", but I haven't tried using it on solder or solder paste.

My next item is to find a hot plate that is recommended, that's an item which I've never experienced, either. Looks like I'll do some searching on Amazon or the Internet, to get ready for the day that I can practice with a few things that need to be looked at.

Here I was, pencil soldering iron on the bench, ready to send really hot points from a spot to whatever SMT part is in mind, and it appears that I'd be frying almost anything I put some heat to! I'll make the transition from "Elecraft, give it plenty of heat for the tiny job", to "little heat gun, just touch the part with a gnat's breath".

Thanks, 73's
Gil WA5YKK

(Taking a pill for heart vessels, get rid of clots, a pill to hold down heart attack pains, a blood pressure pill, one for arthritis, and one for arthritic pains. Leaves me with less $$ in the bank for soldersmoke pleasures!)

8847. Re: MTR rig and solder paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 11:28:45 UTC
From: russellhulett
Topic: 8839 Message: 8847

For the ATS3B used a cookie sheet with raised edges, toothpicks, burts beees, fine braid and my weller station with very fine tip. Guess will build MTR same way, based on what am reading, it's probably too late to teach this old dog any new tricks.

Thanks and 73, Curt KB5JO

8848. Re: [AT_Sprint] Looking forward to getting my MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 11:29:16 UTC
From: Peter Martin
Topic: 8829 Message: 8848

On Sat, Apr 21, 2012 at 4:19 AM, Lew Paceley <lew@...> wrote:

>
>
> Northern Ireland.
> 73,
> *Lew*
> K7GO
> MT
>
>
> Correct!

My MTR has just been delivered by the postman. Thanks Steve.

pete
G4ISJ

8849. Re: MTR rig and solder paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 13:28:53 UTC
From: jor
Topic: 8839 Message: 8849

Hi all,
I use the Aoyue 853A pre-heater and solder the components with the Ayoue 6028 hot aire gun. those are usfull tools.

The reflow oven is not good because it has no internal air flow for heating the bottom and top at the same time. No uniform temp on the hole PCB surface.see,

http://www.eleshop.nl/solderen-c-21.html?osCsid=8151ac0d670de4d18d9a29f198bd60be

73' Joris PE1KTH

--- In AT_Sprint@yahoogroups.com, "russellhulett" <rhulett1@...> wrote:
>
> For the ATS3B used a cookie sheet with raised edges, toothpicks, burts beees, fine braid and my weller station with very fine tip. Guess will build MTR same way, based on what am reading, it's probably too late to teach this old dog any new tricks.
>
> Thanks and 73, Curt KB5JO
>

8850. ATS4-b?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 13:09:57 UTC
From: maximilien971
Topic: 8850 Message: 8850

Hello!

is there a future batch of ATS4 planned?

TY

Patrick
F6GWE

8851. MTR Altoids template

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 17:23:08 UTC
From: Tom
Topic: 8851 Message: 8851

I decided to try an Altoids tin for starters as an enclosure for the MTR. I found that if you just wrap the template over the edges of the can for the side panel connectors, this results in them being too close to the board (yes, I printed it full size). I will have to file those holes oblong to get enough space to mount them - kind of sloppy - I may just start over. If you go this route, I recommend drilling only the front panel holes (all these came out fine), trial fit it in the can, and then decide on the position of the side panel connector template independently of the front panel. Also, I would offset the antenna connector a bit more to the side of where it connects to the board to gain a little more wiring room. Everything is a tight fit, but it does make for a cute and compact package. YMMV.
BTW, I found that a Stihl chain saw sharpening file is the ideal tool for filing holes to size and cleaning up the rough edges made by drilling. It is a very fine pitch file and just the right size to allow good control when filing the soft thin metal.
73, Tom N0BS

8852. Re: MTR Altoids template

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 17:36:05 UTC
From: jgaffke
Topic: 8851 Message: 8852

--- In AT_Sprint@yahoogroups.com, "Tom" <tmoll150@...> wrote:
BTW, I found that a Stihl chain saw ... is the ideal tool ...

That would certainly make quick work of it!
Jerry, KE7ER

8853. Re: [AT_Sprint] Re: MTR Altoids template

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 18:10:02 UTC
From: Tom Moll
Topic: 8851 Message: 8853

LOL - remember those "rough edges" I mentioned????
Tom

On Sat, Apr 21, 2012 at 5:36 PM, jgaffke <jgaffke@...> wrote:

> **
>
>
> --- In AT_Sprint@yahoogroups.com, "Tom" <tmoll150@...> wrote:
> BTW, I found that a Stihl chain saw ... is the ideal tool ...
>
> That would certainly make quick work of it!
> Jerry, KE7ER
>
>
>

8854. Re: [AT_Sprint] MTR Altoids template

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 19:04:46 UTC
From: Stephen Wandling
Topic: 8851 Message: 8854

Possibly on this forum, but maybe another, someone suggested a way of creating rectangular holes in mint tins.

Mark out the required opening on the tin, draw diagonal lines from the corners, drill at their intersection, and then cut from that hole to each corner with a jewler's saw or equivalent. When that's done, fold the 'triangles' under and you have a nice looking opening, without any 'edge' issues.

I have not tried this yet, but I'm sure it will be a big improvement on my 'drill and file' work to date.

BTW, one of the perks of using the Altoid tin is that if you make a mistake on either the lid or case, you can easily separate them and keep the good part.

72 Stephen VE7NSD

On 21/04/2012 10:23 AM, Tom wrote:
> BTW, I found that a Stihl chain saw sharpening file is the ideal tool for filing holes to size and cleaning up the rough edges made by drilling.

8855. Re: MTR Altoids template

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 19:38:01 UTC
From: Tom
Topic: 8851 Message: 8855

For the rectangular holes, I just drilled a hole the diameter of my file, and then using the file, made the hole slightly oblong to allow for the range of movement of the slide switches. If you apply a graphic template on the cover, it is easy to cut those openings rectangular and you will not see the oblong shape of the hole in the tin.
Am I missing something? There are no holes in the lid, so how would you mess it up? I thought the benefit of making a mistake on the case was that you get to eat another tin of Altoids!!

BTW Steve - how about an editable version of the cover graphic with the holes properly scaled, so that we can customize the graphics?

It occurred to me that a clear mylar sheet with the graphics and labels reverse printed on the back side of it might make a nice cover. If the top gets scratched, just print a new one and replace it.

Tom N0BS

--- In AT_Sprint@yahoogroups.com, Stephen Wandling <swandling@...> wrote:
>
> Possibly on this forum, but maybe another, someone suggested a way of
> creating rectangular holes in mint tins.
>
> Mark out the required opening on the tin, draw diagonal lines from the
> corners, drill at their intersection, and then cut from that hole to
> each corner with a jewler's saw or equivalent. When that's done, fold
> the 'triangles' under and you have a nice looking opening, without any
> 'edge' issues.
>
> I have not tried this yet, but I'm sure it will be a big improvement on
> my 'drill and file' work to date.
>
> BTW, one of the perks of using the Altoid tin is that if you make a
> mistake on either the lid or case, you can easily separate them and keep
> the good part.
>
> 72 Stephen VE7NSD
>
> On 21/04/2012 10:23 AM, Tom wrote:
> > BTW, I found that a Stihl chain saw sharpening file is the ideal tool for filing holes to size and cleaning up the rough edges made by drilling.
>

8856. Re: MTR Shipments

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 17:58:43 UTC
From: k1thp
Topic: 8798 Message: 8856

Thanks Steve, it showed up yesterday and I am in process of getting my bench and tools in order. Can't wait to put some rf out from the field.

--- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
>
> Have all the kits been shipped? Payment was accepted by PayPal a week ago and have not got my MTR kit.
>

8857. Solder Paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 17:27:43 UTC
From: k1thp
Topic: 8857 Message: 8857

I am a bit confused as to the amount of reflow (solder paste) construction that can be used. I have order paste from Cash Olson, an embosser heater from the local craft store and a coffee mug heater from an online source so I will be using a method that has brought success to many on this group. My question involves what side of the board gets done with this method? My feeling is to do the side with all the resistors and capacitors and then hand solder the side with the IC's. I can't see a way to safely do both side using the hot air reflow. I have 10 years experience doing smt rework by hand soldering so either way can be made to work for me. After 10 years of hand solder rework I can say that it's not that much fun so help!

8858. RE: [AT_Sprint] Solder Paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-21 23:13:51 UTC
From: Dale Putnam
Topic: 8857 Message: 8858

Hi, Do both sides.. the second side is chosen to have the fewer components on it.. and it is done second.... leaving less time for the higher populated area to get hot, from the hot air.. and have gravity take over... So.. the cup warmer should be no more than 200 degrees, and the time spend using hot air on the second side, planned, and most of all.. after everything flows on that second side.. DO NOT MOVE the board, until it cools enough to have the solder solid. Then immediately inspect carefully the heating surface for little critters that expected to get away.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: karpiejd@...
Date: Sat, 21 Apr 2012 17:27:43 +0000
Subject: [AT_Sprint] Solder Paste construction

I am a bit confused as to the amount of reflow (solder paste) construction that can be used. I have order paste from Cash Olson, an embosser heater from the local craft store and a coffee mug heater from an online source so I will be using a method that has brought success to many on this group. My question involves what side of the board gets done with this method? My feeling is to do the side with all the resistors and capacitors and then hand solder the side with the IC's. I can't see a way to safely do both side using the hot air reflow. I have 10 years experience doing smt rework by hand soldering so either way can be made to work for me. After 10 years of hand solder rework I can say that it's not that much fun so help!

8859. unpainted Altoid Tins without raised letters

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 01:11:49 UTC
From: Ken Lotts
Topic: 8859 Message: 8859

FWIW,

I found a company (on Ebay) that sells brand new unpainted tins that are an exact duplicate of the old style altoids. (Item number: 130595966652)

The down side is that they only sell them in lots of 24.. but even so.. this is cool.

hinge top tins - same size as Altoids

8860. Re: [AT_Sprint] unpainted Altoid Tins without raised letters

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 01:09:55 UTC
From: Philip Sutherland
Topic: 8859 Message: 8860

Ken et al,
It looks like they do the tins in lots of 4, 8 or even 48 too.
See
http://stores.ebay.com/Blue-Starlight-Enterprises-99/_i.html?_fsub=800380011
Cheers
phil VK6KPS

On 22/04/12 09:11, Ken Lotts wrote:
>
>
> FWIW,
>
> I found a company (on Ebay) that sells brand new unpainted tins that
> are an exact duplicate of the old style altoids. (Item number:
> 130595966652)
>
> The down side is that they only sell them in lots of 24.. but even
> so.. this is cool.
>
>
> hinge top tins - same size as Altoids
> <http://www.ebay.com/itm/24-hinge-top-tins-same-size-as-Altoids-silver-315-/130595966652
?pt=LH_DefaultDomain_0&hash=item1e68204ebc#ht_2214wt_952>
>
>
>
>

8861. Re: [AT_Sprint] unpainted Altoid Tins without raised letters

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 01:19:37 UTC
From: bgriffin
Topic: 8859 Message: 8861

http://www.specialtybottle.com/hingedtincontainersmi.aspx

I believe these are any quantity. I have ordered from here before and
was satisfied with
the service and product.

Bill, ni5x
>
> Ken et al,
> It looks like they do the tins in lots of 4, 8 or even 48 too.
> See
> http://stores.ebay.com/Blue-Starlight-Enterprises-99/_i.html?_fsub=800380011
> Cheers
> phil VK6KPS
>
>
>
>

8862. RE: [AT_Sprint] unpainted Altoid Tins without raised letters

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 01:33:01 UTC
From: Ken Lotts
Topic: 8859 Message: 8862

Thanks!
I just bought a package of eight for $14.95
That ought to keep me for a while (hihi)

Ken AA7JC

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com]On
Behalf Of Philip Sutherland
Sent: Saturday, April 21, 2012 6:10 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] unpainted Altoid Tins without raised letters

Ken et al,
It looks like they do the tins in lots of 4, 8 or even 48 too.
See
http://stores.ebay.com/Blue-Starlight-Enterprises-99/_i.html?_fsub=800380011
Cheers
phil VK6KPS

On 22/04/12 09:11, Ken Lotts wrote:

FWIW,

I found a company (on Ebay) that sells brand new unpainted tins that are
an exact duplicate of the old style altoids. (Item number: 130595966652)

The down side is that they only sell them in lots of 24.. but even so..
this is cool.

hinge top tins - same size as Altoids

8863. Re: [AT_Sprint] Solder Paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 02:21:05 UTC
From: Paul Smith
Topic: 8857 Message: 8863

When I built my ATS3B I used the coffee cup heater, embossing method. I propped the board up for soldering the back side with 3 pennies under each corner and went on with the work. Everything went fine and the rig fired up first try.
de Paul Smith N0NBD

From: k1thp
Sent: Saturday, April 21, 2012 12:27 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Solder Paste construction

I am a bit confused as to the amount of reflow (solder paste) construction that can be used. I have order paste from Cash Olson, an embosser heater from the local craft store and a coffee mug heater from an online source so I will be using a method that has brought success to many on this group. My question involves what side of the board gets done with this method? My feeling is to do the side with all the resistors and capacitors and then hand solder the side with the IC's. I can't see a way to safely do both side using the hot air reflow. I have 10 years experience doing smt rework by hand soldering so either way can be made to work for me. After 10 years of hand solder rework I can say that it's not that much fun so help!

No virus found in this message.
Checked by AVG - www.avg.com
Version: 10.0.1424 / Virus Database: 2411/4950 - Release Date: 04/21/12

8864. MTR arrived today!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 02:27:27 UTC
From: Johnny Matlock
Topic: 8864 Message: 8864

Tnx Steve:
My Mtr arrived in the mail today in SE Kansas.
Looks like I was getting close to the end, mine is ser nr 096!
The build starts soon.
Thanks again.
72
Johnny AC0BQ

8865. Re: Solder Paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 02:08:38 UTC
From: k1thp
Topic: 8857 Message: 8865

I'm a bit confused. If I do the side with all the resistors and caps first, then populate the other side and reheat it with the resistors and caps resting on the hot plate will I stand a chance of over stressing some of the parts?

Dave K1THP

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Hi, Do both sides.. the second side is chosen to have the fewer components on it.. and it is done second.... leaving less time for the higher populated area to get hot, from the hot air.. and have gravity take over... So.. the cup warmer should be no more than 200 degrees, and the time spend using hot air on the second side, planned, and most of all.. after everything flows on that second side.. DO NOT MOVE the board, until it cools enough to have the solder solid. Then immediately inspect carefully the heating surface for little critters that expected to get away.
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: karpiejd@...
> Date: Sat, 21 Apr 2012 17:27:43 +0000
> Subject: [AT_Sprint] Solder Paste construction
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>

8866. RE: [AT_Sprint] Re: Solder Paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 16:43:13 UTC
From: Dale Putnam
Topic: 8857 Message: 8866

Won't be any problem, Dave, if you keep the warming surface not more than 200deg F, and don't dislodge any of the components on the bottom side, with being too anxious to pick it up.

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: karpiejd@...
Date: Sun, 22 Apr 2012 02:08:38 +0000
Subject: [AT_Sprint] Re: Solder Paste construction

I'm a bit confused. If I do the side with all the resistors and caps first, then populate the other side and reheat it with the resistors and caps resting on the hot plate will I stand a chance of over stressing some of the parts?

Dave K1THP

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

>

> Hi, Do both sides.. the second side is chosen to have the fewer components on it.. and it is done second.... leaving less time for the higher populated area to get hot, from the hot air.. and have gravity take over... So.. the cup warmer should be no more than 200 degrees, and the time spend using hot air on the second side, planned, and most of all.. after everything flows on that second side.. DO NOT MOVE the board, until it cools enough to have the solder solid. Then immediately inspect carefully the heating surface for little critters that expected to get away.

>

> --... ...--

> Dale - WC7S in Wy

> To: AT_Sprint@yahoogroups.com

> From: karpiejd@...

> Date: Sat, 21 Apr 2012 17:27:43 +0000

> Subject: [AT_Sprint] Solder Paste construction

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>

8867. You Tube video, tutorial of hot plate usage and solder paste

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 22:22:59 UTC
From: poikaa
Topic: 8867 Message: 8867

This is on You Tube and shows very well of the use of a hot plate and solder paste....

http://www.youtube.com/watch?v=Uov0SPHKcnk

73 Rod KB8DNS

8868. ATS4 Dig1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 23:39:36 UTC
From: bob_nelson_k2qpn
Topic: 8868 Message: 8868

I just started to test Dig1 mode on my ATS4 (original). It sends a "p" for a space. I see in the forum that folks were looking for new firmware. Did that ever happen? Can somebody send my the firmware?

73. Bob K2QPN
k2qpn@arrl.net

8869. Re: [AT_Sprint] Re: Solder Paste construction

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 23:50:09 UTC
From: Stephen Wandling
Topic: 8857 Message: 8869

I do as others here do and put pennies under the corners of the board when I'm doing the second side. I don't know if it's absolutely necessary, but it does allow the board to be preheated, without the soldered components contacting the hot plate surface.

The key is that the hot plate is preheating everything, to avoid stresses, and the embossing heat gun is focused on the components you want to solder. The preheat temperature is about 200 F and the embossing gun is about 680 F.

72 Stephen VE7NSD

On 21/04/2012 7:08 PM, k1thp wrote:
> I'm a bit confused. If I do the side with all the resistors and caps first, then populate the other side and reheat it with the resistors and caps resting on the hot plate will I stand a chance of over stressing some of the parts?
>
> Dave K1THP
>
> --- In AT_Sprint@yahoogroups.com, Dale Putnam<daleputnam@...> wrote:
>
>>
>> Hi, Do both sides.. the second side is chosen to have the fewer components on it.. and it is done second.... leaving less time for the higher populated area to get hot, from the hot air.. and have gravity take over... So.. the cup warmer should be no more than 200 degrees, and the time spend using hot air on the second side, planned, and most of all.. after everything flows on that second side.. DO NOT MOVE the board, until it cools enough to have the solder solid. Then immediately inspect carefully the heating surface for little critters that expected to get away.
>>
>> --... ...--
>> Dale - WC7S in Wy
>> To: AT_Sprint@yahoogroups.com
>> From: karpiejd@...
>> Date: Sat, 21 Apr 2012 17:27:43 +0000
>> Subject: [AT_Sprint] Solder Paste construction
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> Yahoo! Groups Links
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8870. mtr resistor id question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-22 16:09:21 UTC
From: kd5kxf
Topic: 8870 Message: 8870

I am not finding R8 that is to be labeled 2672, I have found a resistor labeled 2673 however. R6 labeled 2671. Misprint or mispart? Please advise. Pasting as I type.

Mike KD5KXF

8871. SN 089 MTR almost finished / warning to builders

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-23 01:20:28 UTC
From: kd5kxf
Topic: 8871 Message: 8871

My first experience with the soldering paste construction went well... with one exception. I toasted two trimmers. I got a little aggressive with the heat gun, possibly got it too close. Two of the little guys slid and the screw on both caught solder pads. I got them off with braid and iron but there was no way to get all the solder off the screws. I will hand solder the replacements in once I find replacements. I have seen a few questions on how to do the other side. I started with the bottom and all of it's IC's DDS etc and then used 3 pennies under each corner of the board to heat and flow the other side. Looking forward to putting power to it.

8872. Re: [AT_Sprint] mtr resistor id question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-23 01:40:44 UTC
From: kd5kxf@classicnet.net
Topic: 8870 Message: 8872

BTW, the new manual dated the 20th in the files here fixes that and a few other problems. No other anomalies found after using the amended manual.

Mike KD5KXF
---- kd5kxf <kd5kxf@...> wrote:
> I am not finding R8 that is to be labeled 2672, I have found a resistor labeled 2673 however. R6 labeled 2671. Misprint or mispart? Please advise. Pasting as I type.
>
> Mike KD5KXF
>

8873. Have you used lead-free solder paste?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-23 11:06:07 UTC
From: ohwenzelph
Topic: 8873 Message: 8873

Hi,

Several years ago I had tried electronic kit building with lead-free solder and a hand held soldering iron, with through the hole parts. I found I liked the traditional eutectic lead tin fluxed electronic solder much more for hand soldering, much easier and nicer to work with, lower melting point and turned out better in general.

With the ATS kits I can do a good enough job with tin lead solder paste but wondered how different lead free would be and if there are any tips to compensate for the differences.

72/73

Jerry aa1of
Franconia NH

8874. Solder paste question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-23 15:04:15 UTC
From: newdendrite
Topic: 6023 Message: 8874

I use the cupwarmer/embossing gun method for surface mount. Solder paste dries quickly once it is exposed to air, so I've always tried to finish one side of a board in a few hours. Is this necessary? I'd prefer to build the top side on the MTR over several days, but I want to make sure the paste will perform properly once it is heated.

Michael KD4SGN

8875. RE: [AT_Sprint] Solder paste question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-23 15:21:53 UTC
From: Dale Putnam
Topic: 6023 Message: 8875

The key to that is easy, you can put the components on, then let them sit over night, put more on the next day, after putting the paste on the next day's locations. Or, another way to say it, is to only paste what you can put components on that day. I suppose it would be possible to put the board into a sandwich baggie, and place it carefully into the refrig. I'd be very concerned that the board would be disturbed, after the frig light went off the first time. Murphy works in the dark too.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: mob@...
Date: Mon, 23 Apr 2012 15:04:15 +0000
Subject: [AT_Sprint] Solder paste question

I use the cupwarmer/embossing gun method for surface mount. Solder paste dries quickly once it is exposed to air, so I've always tried to finish one side of a board in a few hours. Is this necessary? I'd prefer to build the top side on the MTR over several days, but I want to make sure the paste will perform properly once it is heated.

Michael KD4SGN

8876. Re: Solder paste question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-23 16:02:21 UTC
From: William
Topic: 6023 Message: 8876

Does one side need to be completely populated before heating or can it be done piece meal with several heating cycles? I know that the components are tough, but is there a limit?

Bill WV1N

--- In AT_Sprint@yahoogroups.com, "newdendrite" <mob@...> wrote:
>
> I use the cupwarmer/embossing gun method for surface mount. Solder paste dries quickly once it is exposed to air, so I've always tried to finish one side of a board in a few hours. Is this necessary? I'd prefer to build the top side on the MTR over several days, but I want to make sure the paste will perform properly once it is heated.
>
> Michael KD4SGN
>

8877. RE: [AT_Sprint] Re: Solder paste question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-23 16:28:12 UTC
From: Dale Putnam
Topic: 6023 Message: 8877

I suppose you can reheat, and reflow all the solder connections again and again... however, that process may introduce issues that you may not want to deal with, as incomponents that move, shorts that occur, basic Murphyisms. With good temperature control to not exceed the norm, you shouldn't have any issues... however, if you are considering reheating the board to reflow, say 10 - 15 times... I'd recommend you find a builder that can build it for you with two or three heats.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: fretjock@...
Date: Mon, 23 Apr 2012 16:02:21 +0000
Subject: [AT_Sprint] Re: Solder paste question

Does one side need to be completely populated before heating or can it be done piece meal with several heating cycles? I know that the components are tough, but is there a limit?

Bill WV1N

--- In AT_Sprint@yahoogroups.com, "newdendrite" <mob@...> wrote:

>

> I use the cupwarmer/embossing gun method for surface mount. Solder paste dries quickly once it is exposed to air, so I've always tried to finish one side of a board in a few hours. Is this necessary? I'd prefer to build the top side on the MTR over several days, but I want to make sure the paste will perform properly once it is heated.

>

> Michael KD4SGN

>

8878. Re: [AT_Sprint] Re: Solder paste question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-23 17:33:17 UTC
From: Stephen Wandling
Topic: 6023 Message: 8878

I have tended to do a small 'square' that's maybe 1"x1" or a bit more. I put on everything that is in that area. I do this because, while I find the hot air/solder paste method to be much easier for me than hand soldering, I still start feeling a bit stressed after a half hour or so.

When I've got a square populated, I put it on the warmer for 3 or 4 minutes and then use the embossing gun to focus on the components I've sent in the paste.

On the next square, the area of the first square will also be warmed by the warmer, but I try and focus the embossing gun, which is a much higher temperature, on the 'new square'. I'm sure that the embossing gun does heat up some of the previously soldered components a bit, but I've never seen one move or change appearances in any way.

As a side note, someone here mentioned they melted some trimmer capacitors with the air gun. No doubt. I've only built the ATS3B and hand soldered all of the components on the filter boards. I gather that the filter components are on the MTR main PCB. I would hand solder on any plastic components, once the rest of the board is fully populated.

There is no "one right way" to build an SMD kit.

72 Stephen VE7NSD

On 23/04/2012 9:02 AM, William wrote:
> Does one side need to be completely populated before heating or can it be done piece meal with several heating cycles? I know that the components are tough, but is there a limit?
>
> Bill WV1N
>
> --- In AT_Sprint@yahoogroups.com, "newdendrite"<mob@...> wrote:
>
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>> Michael KD4SGN
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8879. MTR serial numbers

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-23 18:46:22 UTC
From: John Shadle
Topic: 8879 Message: 8879

Pretty neat that Steve decided to include serial numbers in the new rigs.
I'm guessing there is 001 through 150. Can you confirm that, Steve?

-john W4PAH
SN/060

8880. Re: [AT_Sprint] MTR serial numbers

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-23 21:39:42 UTC
From: Steven Weber
Topic: 8879 Message: 8880

Yep. I figured since I didn't include a CD with this kit, I'd better put in a note to idenify it for those who put it away and wonder what the heck it is when it turns up 10 years from now, hi. Once I made that decision, it wasn't hard to number them. And I know how much everyone likes SN!

Steve

Pretty neat that Steve decided to include serial numbers in the new rigs. I'm guessing there is 001 through 150. Can you confirm that, Steve?

-john W4PAH
SN/060

8881. Re: [AT_Sprint] MTR serial numbers

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-23 22:31:14 UTC
From: n4wdc@va.metrocast.net
Topic: 8879 Message: 8881

Steve,
SN 117 is now owned by Chuck Stover, K4QS.
I owed him and he was unavailable when they went on sale.
I'll buy one for myself if you kit another this fall.
David N4WDC

On Mon 04/23/12 17:39 , "Steven Weber" steve.kd1jv@... sent:
> Yep. I figured since I didn't include a CD with this kit, I'd
> better put in a note to idenify it for those who put it away and
> wonder what the heck it is when it turns up 10 years from now, hi.
> Once I made that decision, it wasn't hard to number them. And I know
> how much everyone likes SN! Steve
> Pretty neat that Steve decided to include serial numbers in the new
> rigs. I'm guessing there is 001 through 150. Can you confirm that,
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> -john W4PAH
> SN/060
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> Links:
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> [3]
> http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJxOWhka3J1BF9TAzk3M
> zU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM4ODgwBHNlYwNm
> dHIEc2xrA3JwbHkEc3RpbWUDMTMzNTIxNzE4Ng--?act=reply&messageNum=8880[4]
> http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJmbGZsbGt1BF9TAzk3M
> zU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNudHBj
> BHN0aW1lAzEzMzUyMTcxODY-[5]
> http://groups.yahoo.com/group/AT_Sprint/message/8879;_ylc=X3oDMTM1MDNhdWwzB
> F9TAzk3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM4ODgw
> BHNlYwNmdHIEc2xrA3Z0cGMEc3RpbWUDMTMzNTIxNzE4NgR0cGNJZAM4ODc5[6]
> http://groups.yahoo.com/group/AT_Sprint/members;_ylc=X3oDMTJnZ2QyazYxBF9TAz
> k3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2b
> WJycwRzdGltZQMxMzM1MjE3MTg2?o=6[7]
> http://groups.yahoo.com/group/AT_Sprint/spnew;_ylc=X3oDMTJnMTVhM2plBF9TAzk3
> MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2cGh
> vdARzdGltZQMxMzM1MjE3MTg2[8]
> http://groups.yahoo.com/group/AT_Sprint/files;_ylc=X3oDMTJoaG1yYm9xBF9TAzk3
> MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Zml
> sZXMEc3RpbWUDMTMzNTIxNzE4Ng--[9]
> http://groups.yahoo.com/group/AT_Sprint;_ylc=X3oDMTJmZ3J1N2s3BF9TAzk3MzU5Nz
> E0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0a
> W1lAzEzMzUyMTcxODY-[10]

> http://groups.yahoo.com/;_ylc=X3oDMTJlNjc5bDdqBF9TAzk3NDc2NTkwBGdycElkAzE4M
> DM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTMzNTIxNzE4
> Ng--[14] http://docs.yahoo.com/info/terms/
>
>

8882. Re: [AT_Sprint] MTR serial numbers

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 01:25:23 UTC
From: Johnny Matlock
Topic: 8879 Message: 8882

Thanks Steve:
I had rather have the ser # than the CD!
I guess I was not as close to the end as I thought!!
Hope to see you at Dayton!
72
Johnny AC0BQ

On Mon, Apr 23, 2012 at 4:39 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
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>
> **
> Yep. I figured since I didn't include a CD with this kit, I'd better put
> in a note to idenify it for those who put it away and wonder what the heck
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>
> -john W4PAH
> SN/060
>
>
>

8883. Re: Solder paste question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 01:48:38 UTC
From: newdendrite
Topic: 6023 Message: 8883

I wasn't planning to put paste on the board unless I was mounting a component. I was wondering whether solder paste that had dried for several days before initial heating would compromise final quality of the solder joints.

Thanks,
Michael KD4SGN

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> The key to that is easy, you can put the components on, then let them sit over night, put more on the next day, after putting the paste on the next day's locations. Or, another way to say it, is to only paste what you can put components on that day.

8884. MSP430 Programing for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 03:33:25 UTC
From: Scott Zastoupil
Topic: 8884 Message: 8884

It sounds like there was some updates to the the later kits that were sent. Is it possible to do in circuit programming for firmware updates? If so, I wonder if its possible with the launchpad dev board, or is a serial type programmer needed? It isn't clear to me if a JTAG programmer is needed.

Scott, KB0KFX

8885. MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 03:35:41 UTC
From: Scott Zastoupil
Topic: 8885 Message: 8885

It sounds like there was some updates to the the later kits that were sent. Is it possible to do in circuit programming for firmware updates? If so, I wonder if its possible with the launchpad dev board, or is a serial type programmer needed? It isn't clear to me if a JTAG programmer is needed.

Scott, KB0KFX

8886. Re: [AT_Sprint] MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 11:02:09 UTC
From: Michael Harnage
Topic: 8885 Message: 8886

The MTR uses spy-by-wire. 2 lines to program, so yes the launchpad will work even though TI does not state it will work with this chip.

I don't think Steve has published the latest code yet. When he does it will probably be in the files section of the group.

-mike/w1mt

It sounds like there was some updates to the the later kits that were sent. Is it possible to do in circuit programming for firmware updates? If so, I wonder if its possible with the launchpad dev board, or is a serial type programmer needed? It isn't clear to me if a JTAG programmer is needed.
>
>

8887. Re: [AT_Sprint] MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 12:59:18 UTC
From: Scott Zastoupil
Topic: 8885 Message: 8887

That is encouraging to know and will get a launchpad on it's way. It sounds like you may have done this. Any recommendations on software that will handle the in-circuit programming for the SPI by wire? I did see that Steve grouped a few connections in the upper left of the MSP430 on the schematic. I'm guessing the test and reset signals are the ones of interest. Maybe when the smoke settles from kit shipping, Steve will post the latest code.

Scott, KB0KFX

From: Michael Harnage <w1mt@...>
To: "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
Sent: Tuesday, April 24, 2012 6:02 AM
Subject: Re: [AT_Sprint] MSP430 Reprograming for MTR

The MTR uses spy-by-wire. 2 lines to program, so yes the launchpad will work even though TI does not state it will work with this chip.

I don't think Steve has published the latest code yet. When he does it will probably be in the files section of the group.

-mike/w1mt

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>
>

8888. Re: [AT_Sprint] MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 13:13:39 UTC
From: Michael Harnage
Topic: 8885 Message: 8888

When you order the Launchpad, you should see links to download the IDE. I have only used the IAR Embedded Workbench version so that's the one I recommend.

Here is a link to the LaunchPad main page:

http://e2e.ti.com/group/msp430launchpad/w/default.aspx

You will need to connect the test, reset, and ground wires from the LaunchPad to the MTR board, then use the IAR software to download firmware. I haven't done it yet with the MTR, but will, as soon as I get it built. Soon after that should have a version of my firmware available for the MTR. Of course, kids and family may delay .....

-mike/w1mt

>
>That is encouraging to know and will get a launchpad on it's way. It sounds like you may have done this. Any recommendations on software that will handle the in-circuit programming for the SPI by wire? I did see that Steve grouped a few connections in the upper left of the MSP430 on the schematic. I'm guessing the test and reset signals are the ones of interest. Maybe when the smoke settles from kit shipping, Steve will post the latest code.
>
>

8889. Re: MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 13:25:55 UTC
From: Jonathan Haynes
Topic: 8885 Message: 8889

My ATS3B has a nice strip for the programming cable--I was wondering the same thing; will the MTR have any such option?
http://www.flickr.com/photos/jonathancharles/2897298586/
Jonathan KC7FYS

--- In AT_Sprint@...m, Scott Zastoupil <szastoupil@...> wrote:
>
> That is encouraging to know , Steve will post the latest code. Â
>
> Scott, KB0KFX

> _____
> From: Michael Harnage <w1mt@...>

> The MTR uses spy-by-wire.
> -mike/w1mt

8890. Re: [AT_Sprint] Re: MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 13:37:20 UTC
From: Michael Harnage
Topic: 8885 Message: 8890

No. Only 3 lines needed for the MTR. You can see them above the MPU chip on the board. You will need new hardware to plug into your USB port (TI LaunchPad will work and it's only $4.30). You probably will need to update the IAR Workbench if you're using the old one that I reference on my website.

-mike/w1mt

My ATS3B has a nice strip for the programming cable--I was wondering the same thing; will the MTR have any such option?
>http://www.flickr.com/photos/jonathancharles/2897298586/
>
>

8891. RE: [AT_Sprint] Re: Solder paste question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 13:54:55 UTC
From: Dale Putnam
Topic: 6023 Message: 8891

No, paste that has dried, yet not been heated is fine, no problem when heated, it however, does lose its stickiness that will tend to let components that were placed, slip away.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: mob@...
Date: Tue, 24 Apr 2012 01:48:38 +0000
Subject: [AT_Sprint] Re: Solder paste question

I wasn't planning to put paste on the board unless I was mounting a component. I was wondering whether solder paste that had dried for several days before initial heating would compromise final quality of the solder joints.

Thanks,

Michael KD4SGN

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

>

> The key to that is easy, you can put the components on, then let them sit over night, put more on the next day, after putting the paste on the next day's locations. Or, another way to say it, is to only paste what you can put components on that day.

8892. Re: [AT_Sprint] Re: MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 17:24:46 UTC
From: Steven Weber
Topic: 8885 Message: 8892

Mike is correct. The LaunchPad will only work with the latest release of the IAR workbench. The latest version of the firmware is already in the MTR folder in the files section. I should probably add the IAR .prg file which has the options setup configured for the chip.

Although you can get a Launchpad directly from TI, they make you jump through hoops to do so. It's much easier to get one through Mouser or Digi-Key, although it will cost a little more. (it was like $5.03 plus postage - go priority mail there).

The latest firmware only fixes a bug which allows the rig to tune beyond the tuning limits in the case of having a 50 Hz step in the frequency and I belive that only applies to S/N of less then 90.

Steve
No. Only 3 lines needed for the MTR. You can see them above the MPU chip on the board. You will need new hardware to plug into your USB port (TI LaunchPad will work and it's only $4.30). You probably will need to update the IAR Workbench if you're using the old one that I reference on my website.

-mike/w1mt

8893. Serial Numbers for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 17:46:20 UTC
From: Joseph Trombino, Jr
Topic: 8893 Message: 8893

I haven't started building my MTR rig yet but am wondering where does one find the serial number???

73, Joe W2KJ

8894. Re: [AT_Sprint] Serial Numbers for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 17:49:28 UTC
From: John Shadle
Topic: 8893 Message: 8894

It's on the little piece of paper that was sent with your kit. Maybe 2" x 3" or so. Inside the envelope.

I don't believe it exists anywhere else (unless Steve KD1JV has a record of them).

-john W4PAH
SN/060

On Tue, Apr 24, 2012 at 1:46 PM, Joseph Trombino, Jr <jotrom@...>wrote:

> **
>
>
> I haven't started building my MTR rig yet but am wondering where does one
> find the serial number???
>
> 73, Joe W2KJ
>
>

8895. Heating PC boards for SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 18:32:33 UTC
From: k6jeb
Topic: 8821 Message: 8895

Why heat the PC board and components before using the hot air to flash the solder paste?
It serves to ramp the temperature up for both the pcb and the components to a threshold temperature; from there you take the specific parts/area of the board over the solder paste melting temperature without having to hold the hot air on it very long. This protects the components and seems to be more to spec with regard to the solder paste itself.
For you guys looking for a heating pad, I actually prefer the electric skillet I bought years ago at Target (just for this purpose). It's bigger than a coffee warmer, has sides so just in case you pull a newbie move like I did and blow a part right off the paste, it doesn't go very far. I actually place the SMDs on the paste/pcb IN the skillet, which makes a decent work space (you can prop your hands on the sides when you have the tweezers). Of course this placement takes place BEFORE you plug the skillet in! hi hi!
Of course you can try NOT using the pre-heating,but it will take a lot more application of heat from your hot air source. It actually is what you can and sometimes have to do when you have to rework a circuit. There are specific tools for that however and that task merits its own discussion.
I try to take my skillet/pcb up to about 200 degrees F and then plateau there, get the hot air (embossing tool) heated up and get ready for the fun. Keep the barrel of the thing pointed down-range (in a safe direction).
Oh and by the way, when you do the second side, you can prop-up the pcb on pennies to keep the bottom-side components (that you've already soldered) from shifting. And don't forget to NOT use this method with any through-hole parts, especially including USB ports (ahem, a little lesson I learned with the recent build of a Softrock SMD at a NorCalQRP Buildathon). I usually do the side with the LEAST parts first since if they do get jiggled and move when doing the more populated side, there's less work. Know that sometimes, you simply have to do some components by-hand, and that's OK too since none of us should be afraid of soldering a couple SMDs.
You can get plenty of practice with this method by taking apart an old computer motherboard or something such. Practice getting the right amount of paste on to the pads so the part pulls-in nice and centered (that's a really wonderful result of doing it this way versus soldering each pad by hand). There's almost that moment of alchemy as the paste turns bright and shiny. I demo this at clubs and it lights-up even the most latent builders in the group. Through-hole is a blast, but being able to delve into SMD the way hams have has opened a lot of new doors for exploration.
Rather than go to Target or elsewhere, most of you probably have spouses who have one of these skillets that hasn't been used in years/decades.

Use your best judgement on whether to ask for permission or for forgiveness. hi hi!
The hot-air method is a great way to get a lot of parts on the board quickly and the results, when done right, are superb.
72/73Jack, K6JEBhttp://www.k6jeb.com/ <http://www.k6jeb.com/>

8896. Re: [AT_Sprint] Heating PC boards for SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 19:07:10 UTC
From: WA0ITP
Topic: 8821 Message: 8896

"I actually prefer the electric skillet"

Me too, for all the same reasons,
http://www.wa0itp.com/jkpqvemy.html

I love this radio stuff !
72, 73 Terry, WA?ITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: k6jeb
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, April 24, 2012 1:32 PM
Subject: [AT_Sprint] Heating PC boards for SMD soldering

Why heat the PC board and components before using the hot air to flash the solder paste?

It serves to ramp the temperature up for both the pcb and the components to a threshold temperature; from there you take the specific parts/area of the board over the solder paste melting temperature without having to hold the hot air on it very long. This protects the components and seems to be more to spec with regard to the solder paste itself.

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Rather than go to Target or elsewhere, most of you probably have spouses who have one of these skillets that hasn't been used in years/decades. Use your best judgement on whether to ask for permission or for forgiveness. hi hi!

The hot-air method is a great way to get a lot of parts on the board quickly and the results, when done right, are superb.

72/73
Jack, K6JEB
http://www.k6jeb.com/

8897. Re: [AT_Sprint] Re: MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 20:30:10 UTC
From: John Shadle
Topic: 8885 Message: 8897

I just ordered the device from TI and wasn't given any hassle. Maybe I was lucky. ;-) I did it this morning. Ended up being $4.30 + free shipping (via FedEx). Should ship out later on today.

-john W4PAH

On Tue, Apr 24, 2012 at 1:24 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> **
> Mike is correct. The LaunchPad will only work with the latest release of
> the IAR workbench. The latest version of the firmware is already in the MTR
> folder in the files section. I should probably add the IAR .prg file which
> has the options setup configured for the chip.
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> Although you can get a Launchpad directly from TI, they make you jump
> through hoops to do so. It's much easier to get one through Mouser or
> Digi-Key, although it will cost a little more. (it was like $5.03 plus
> postage - go priority mail there).
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> The latest firmware only fixes a bug which allows the rig to tune beyond
> the tuning limits in the case of having a 50 Hz step in the frequency and I
> belive that only applies to S/N of less then 90.
>
> Steve
>

8898. Re: Serial Numbers for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 23:05:00 UTC
From: Milton A Riutort
Topic: 8893 Message: 8898

Yes, it is inside the main envelope with the radio parts. The paper has the Yahoos Group HTML address for you to get more info and the assembling manual, but not the MTR specific files folder, at least not mine, so please check it and use the latest manual uploaded, dated April 20.

Mine number 28.
Milton
NP4KT

Sent from my iPhone

8899. Re: [AT_Sprint] Heating PC boards for SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-24 23:44:32 UTC
From: Johnny Matlock
Topic: 8821 Message: 8899

I agree Terry, the works well for me also.
Johnny AC0BQ

On Tue, Apr 24, 2012 at 2:07 PM, WA0ITP <wa0itp@...> wrote:

> **
>
>
> "I actually prefer the electric skillet"
>
> Me too, for all the same reasons,
> http://www.wa0itp.com/jkpqvemy.html
> ----------
> I love this radio stuff !
> 72, 73 Terry, WAØITP
> wa0itp@...
> www.wa0itp.com
> www.4sqrp.com
> www.qrpspots.com
>
>
> ----- Original Message -----
> From: k6jeb
> To: AT_Sprint@yahoogroups.com
> Sent: Tuesday, April 24, 2012 1:32 PM
> Subject: [AT_Sprint] Heating PC boards for SMD soldering
>
> Why heat the PC board and components before using the hot air to flash
> the solder paste?
>
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> The hot-air method is a great way to get a lot of parts on the board
> quickly and the results, when done right, are superb.
>
> 72/73
> Jack, K6JEB
> http://www.k6jeb.com/
>
>
>

8901. Another ATS03b on the Air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-25 03:16:18 UTC
From: Lee Hiers
Topic: 8901 Message: 8901

I know I'm several years behind, but I was able to purchase an unbuilt ATS-3b this past summer, and finally got around to working on it this past weekend. So far I've only built the 40m band module and need to do some tweaking to get my power up, but other than only getting ~2w on a 9v battery, everything worked perfectly first try! Had my first QSO after only a handful of CQs.

Thanks to Chuck, WA6LTV, for showing me his '3b in a "Sindy" Altoids tin - he did exactly what I had in mind: to mount the switches on the reverse side of the board for access through the tin's lid. So, I copied him. Unfortunately, my workmanship is nothing like his - his builds are inspirational!

More at aa4ga.com.

I'm just tickled pink!

73 de Lee
--
Lee Hiers, AA4GA
Submit your QRP DXCC totals - see website for more info
www.aa4ga.com

8902. Re: [AT_Sprint] Re: MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-25 14:07:46 UTC
From: Scott Zastoupil
Topic: 8885 Message: 8902

There might have been some discussion on rouge characters being sent via some sort of CW status. I think you mentioned you might have fat fingered some bits in a register location.

Anyway, I was able to order the Launchpad and also a USB development dongle.
 https://estore.ti.com/EZ430-F2013-MSP430-USB-Stick-Development-Tool-P800.aspx
I ordered the second one just because. I have a few perks as my employer has a development relationship with TI. Enter in a code and poof, shopping cart balance goes to $0.00.

Scott, KB0KFX

_____
From: Steven Weber <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, April 24, 2012 12:24 PM
Subject: Re: [AT_Sprint] Re: MSP430 Reprograming for MTR

Mike is correct. The LaunchPad will only work with
the latest release of the IAR workbench. The latest version of the firmware is
already in the MTR folder in the files section. I should probably add the IAR
.prg file which has the options setup configured for the chip.

Although you can get a Launchpad directly from TI,
they make you jump through hoops to do so. It's much easier to get one through
Mouser or Digi-Key, although it will cost a little more. (it was like $5.03 plus
postage - go priority mail there).

The latest firmware only fixes a bug which allows
the rig to tune beyond the tuning limits in the case of having a 50 Hz step in
the frequency and I belive that only applies to S/N of less then 90.

Steve
No. Only 3 lines needed for the MTR. You can see them above the MPU chip on the board. You will need new hardware to plug into your USB port (TI LaunchPad will work and it's only $4.30). You probably will need to update the IAR Workbench if you're using the old one that I reference on my website.
>
>
>-mike/w1mt
>
>

8903. MTR - BUG ALERT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 05:00:11 UTC
From: Steven Weber
Topic: 8903 Message: 8903

Okay, this is a suttle but serious bug which was just uncovered:

Problem: Transmits local messages - such as frequency annunciation.

Casue: Clicking RIT switch and releasing it before activating RIT or not selecting a message to transmit within 1/2 second. - A flag which enables transmitting messages in the morse out routine is set as soon as the message select wait loop is entered. Unfortunetly, the flag is not cleared if the loop times out.

Short term fix : try not to release the RIT switch before either RIT is activated or you select a message to send. Even a blank location will work.

If the rig starts to transmit local messages, (which will be hard to tell unless you have something to monitor power output all the time) the flag can only be reset by either transmitting an actual message (or blank location) or cycling power to reset the rig.

Long term fix: This is a real question as how to best handle. Gonna have to think about it, but my first though is I'll have to send everyone a new processor. Bummer.

72 Steve

8904. Re: [AT_Sprint] MTR - BUG ALERT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 06:01:14 UTC
From: Håkan Olsson
Topic: 8903 Message: 8904

I love my ATS-4B!
Me and him have been to the woods several times already.

Håkan/SM6EQO :-)

8905. Re: MTR - BUG ALERT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 06:09:28 UTC
From: jgaffke
Topic: 8903 Message: 8905

I think many of us will be fine with using Launchpad to reburn flash. The GNU tools for OSX or Ubuntu are a much cleaner install than IAR or CCS on MSWindows. Might be possible to create a small software package to update the MSP430 that's easy to download and run.
Jerry, KE7ER

8906. Re:] MTR - BUG ALERT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 12:54:45 UTC
From: cloud runner
Topic: 8906 Message: 8906

Long term fix: This is a real question as how to best handle. Gonna have to think about it, but my first though is I'll have to send everyone a new processor. Bummer.

72 Steve

For those units that have not yet been built, would the size of the problem be reduced if the processor was returned to you to be reburned before it is installed???

73 Fred - KT5X serial # 094
.

8907. Re: [AT_Sprint] Re: MTR - BUG ALERT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 12:06:51 UTC
From: kd5kxf@classicnet.net
Topic: 8903 Message: 8907

If it could be done that way through Ubuntu without removing the processor, that would be cool. I have a launchpad, but that IDE of theirs is PITA.
Mike KD5KXF
---- jgaffke <jgaffke@...> wrote:
> I think many of us will be fine with using Launchpad to reburn flash. The GNU tools for OSX or Ubuntu are a much cleaner install than IAR or CCS on MSWindows. Might be possible to create a small software package to update the MSP430 that's easy to download and run.
> Jerry, KE7ER
>

8908. Re: MTR - BUG ALERT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 13:51:49 UTC
From: jgaffke
Topic: 8903 Message: 8908

Don't solder down the MSP430 if you have not done so already.

> For those units that have not yet been built, would the size of the
> problem be reduced if the processor was returned to you to be
> reburned before it is installed???
> 73 Fred - KT5X serial # 094

8909. Re: [AT_Sprint] Re: MTR - BUG ALERT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 14:05:26 UTC
From: jaevans@pcisys.net
Topic: 8903 Message: 8909

Another consideration/option. Purchase a new MCU from one of the reputable sources and send it to Steve for programming. Then you'll get practice removing the original SMT PCU. Of course, that could be destructive - I would just get setup to reprogram the MCU myself.

72 - john - n0hj

> Don't solder down the MSP430 if you have not done so already.
>
> > For those units that have not yet been built, would the size of the
> > problem be reduced if the processor was returned to you to be
> > reburned before it is installed???
> > 73 Fred - KT5X serial # 094
>
>
>

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

8910. Re: MTR - BUG ALERT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 14:06:37 UTC
From: Jonathan
Topic: 8903 Message: 8910

With the air, the 430 is easy to pop off in a moment, too. There will be some solder residue on the tabs, but it lifts easily and quickly.
Jonathan KC7FYS

http://www.flickr.com/photos/jonathancharles

8911. MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 15:12:25 UTC
From: Steven Weber
Topic: 8911 Message: 8911

This BUG is serious enough I feel it must be addressed. We can't be accidently transmitting the local messages.

One of the problems is it has to be done before May 15, when I leave for Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT to hike for a couple of weeks. Then at the end of June, I'll be heading out to Montana for 2 months on the CDT (Continental Divide Trail). I'll be home for a few weeks in early June, but most that time will be spent getting ready to go west.

I will go ahead and buy a bunch of new processors to send out.

1. All the DX orders will get one for sure, because of the expense of sending the original back. These are thin enough that they can go into a standard letter envelope, so the postage is reasonable and avoids customs and those hassles.

2. If you already built the board and don't want to re-flash the chip yourself, put the board in a small box and mail it to me. I'll re-flash the chip and then do the calibration and alignment of the board for you, along with any minor repairs if needed to get it going and pay return postage. What a deal!

3. Anyone who hasn't built the board and willing to pull the chip out of the package and send it to me to re-flash, that would be a big help. Thankfully, I packaged the processor seperately from the rest of the semiconductors so it's easy to find and get to. You can snip the end of the pink bag and slip the chip out. The processor is of course the long skinny part behind the piece of white card. The other chip there is the DDS chip.

When mailing the processor, first fold a small piece of tin foil around it for static protection, then tape it to some thin cardboard, like from a cerial box and have a piece on both sides of the chip. This will help keep the leads from being damaged by the postal machines. You put it in an letter envelope and mail it for 45 cents.

4. Everyone else I'll send a new processor.

I'll hold off ordering new chips until Monday. In the mean time, let me know if your planing to send me your board or chip, so I'll know how many I need to order on Monday.

Steve

8912. Re: [AT_Sprint] MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 15:14:08 UTC
From: jaevans@pcisys.net
Topic: 8911 Message: 8912

I'll re-program the MCU myself Steve.

tnx es 72 - john - n0hj

> This BUG is serious enough I feel it must be addressed. We can't be
> accidently transmitting the local messages.
>
> One of the problems is it has to be done before May 15, when I leave for
> Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT to
> hike for a couple of weeks. Then at the end of June, I'll be heading out to
> Montana for 2 months on the CDT (Continental Divide Trail). I'll be home for
> a few weeks in early June, but most that time will be spent getting ready to
> go west.
>
> I will go ahead and buy a bunch of new processors to send out.
>
> 1. All the DX orders will get one for sure, because of the expense of
> sending the original back. These are thin enough that they can go into a
> standard letter envelope, so the postage is reasonable and avoids customs
> and those hassles.
>
> 2. If you already built the board and don't want to re-flash the chip
> yourself, put the board in a small box and mail it to me. I'll re-flash the
> chip and then do the calibration and alignment of the board for you, along
> with any minor repairs if needed to get it going and pay return postage.
> What a deal!
>
> 3. Anyone who hasn't built the board and willing to pull the chip out of the
> package and send it to me to re-flash, that would be a big help. Thankfully,
> I packaged the processor seperately from the rest of the semiconductors so
> it's easy to find and get to. You can snip the end of the pink bag and slip
> the chip out. The processor is of course the long skinny part behind the
> piece of white card. The other chip there is the DDS chip.
>
> When mailing the processor, first fold a small piece of tin foil around it
> for static protection, then tape it to some thin cardboard, like from a
> cerial box and have a piece on both sides of the chip. This will help keep
> the leads from being damaged by the postal machines. You put it in an letter
> envelope and mail it for 45 cents.
>
> 4. Everyone else I'll send a new processor.
>
> I'll hold off ordering new chips until Monday. In the mean time, let me know
> if your planing to send me your board or chip, so I'll know how many I need
> to order on Monday.

>
> Steve
>
>

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

8913. Re: [AT_Sprint] MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 15:19:55 UTC
From: John Shadle
Topic: 8911 Message: 8913

If we have ordered the board from TI, is it simple for us to reflash the chip ourselves?

I haven't built mine yet, so it's not on the board.

Just wondering if this saves you time, money, effort, Steve.

-john W4PAH

On Thu, Apr 26, 2012 at 11:12 AM, Steven Weber <steve.kd1jv@...>wrote:

> **
>
>
> This BUG is serious enough I feel it must be addressed. We can't be
> accidently transmitting the local messages.
>
> One of the problems is it has to be done before May 15, when I leave for
> Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT
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> hike for a couple of weeks. Then at the end of June, I'll be heading out
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> Montana for 2 months on the CDT (Continental Divide Trail). I'll be home
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> a few weeks in early June, but most that time will be spent getting ready
> to
> go west.
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> I will go ahead and buy a bunch of new processors to send out.
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> 1. All the DX orders will get one for sure, because of the expense of
> sending the original back. These are thin enough that they can go into a
> standard letter envelope, so the postage is reasonable and avoids customs
> and those hassles.
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> 2. If you already built the board and don't want to re-flash the chip
> yourself, put the board in a small box and mail it to me. I'll re-flash
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> chip and then do the calibration and alignment of the board for you, along
> with any minor repairs if needed to get it going and pay return postage.
> What a deal!
>
> 3. Anyone who hasn't built the board and willing to pull the chip out of
> the
> package and send it to me to re-flash, that would be a big help.
> Thankfully,

> I packaged the processor seperately from the rest of the semiconductors so
> it's easy to find and get to. You can snip the end of the pink bag and
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> the chip out. The processor is of course the long skinny part behind the
> piece of white card. The other chip there is the DDS chip.
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> When mailing the processor, first fold a small piece of tin foil around it
> for static protection, then tape it to some thin cardboard, like from a
> cerial box and have a piece on both sides of the chip. This will help keep
> the leads from being damaged by the postal machines. You put it in an
> letter
> envelope and mail it for 45 cents.
>
> 4. Everyone else I'll send a new processor.
>
> I'll hold off ordering new chips until Monday. In the mean time, let me
> know
> if your planing to send me your board or chip, so I'll know how many I
> need
> to order on Monday.
>
> Steve
>
>
>

8914. Re: [AT_Sprint] MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 15:23:45 UTC
From: Bob Confrey
Topic: 8911 Message: 8914

I have the equipment to pull the chip and replace, do this every day...I'll take the new chip.....Be glad to PP you $ to help out....These things happen....Bob...EDJ....

On Thu, Apr 26, 2012 at 11:12 AM, Steven Weber <steve.kd1jv@...> wrote:
> This BUG is serious enough I feel it must be addressed. We can't be
> accidently transmitting the local messages.
>
> One of the problems is it has to be done before May 15, when I leave for
> Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT to
> hike for a couple of weeks. Then at the end of June, I'll be heading out to
> Montana for 2 months on the CDT (Continental Divide Trail). I'll be home for
> a few weeks in early June, but most that time will be spent getting ready to
> go west.
>
> I will go ahead and buy a bunch of new processors to send out.
>
> 1. All the DX orders will get one for sure, because of the expense of
> sending the original back. These are thin enough that they can go into a
> standard letter envelope, so the postage is reasonable and avoids customs
> and those hassles.
>
> 2. If you already built the board and don't want to re-flash the chip
> yourself, put the board in a small box and mail it to me. I'll re-flash the
> chip and then do the calibration and alignment of the board for you, along
> with any minor repairs if needed to get it going and pay return postage.
> What a deal!
>
> 3. Anyone who hasn't built the board and willing to pull the chip out of the
> package and send it to me to re-flash, that would be a big help. Thankfully,
> I packaged the processor seperately from the rest of the semiconductors so
> it's easy to find and get to. You can snip the end of the pink bag and slip
> the chip out. The processor is of course the long skinny part behind the
> piece of white card. The other chip there is the DDS chip.
>
> When mailing the processor, first fold a small piece of tin foil around it
> for static protection, then tape it to some thin cardboard, like from a
> cerial box and have a piece on both sides of the chip. This will help keep
> the leads from being damaged by the postal machines. You put it in an letter
> envelope and mail it for 45 cents.
>
> 4. Everyone else I'll send a new processor.
>
> I'll hold off ordering new chips until Monday. In the mean time, let me know
> if your planing to send me your board or chip, so I'll know how many I need

> to order on Monday.
>
> Steve
>
>
>
> ---
>
> Yahoo! Groups Links
>
>
>

8915. Re: [AT_Sprint] MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 15:50:16 UTC
From: Johnny Matlock
Topic: 8911 Message: 8915

I will pack and mail mine To you Steve
Tnx
Johnny AC0BQ

On Thursday, April 26, 2012, Steven Weber wrote:

> **
>
>
> This BUG is serious enough I feel it must be addressed. We can't be
> accidently transmitting the local messages.
>
> One of the problems is it has to be done before May 15, when I leave for
> Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT
> to
> hike for a couple of weeks. Then at the end of June, I'll be heading out
> to
> Montana for 2 months on the CDT (Continental Divide Trail). I'll be home
> for
> a few weeks in early June, but most that time will be spent getting ready
> to
> go west.
>
> I will go ahead and buy a bunch of new processors to send out.
>
> 1. All the DX orders will get one for sure, because of the expense of
> sending the original back. These are thin enough that they can go into a
> standard letter envelope, so the postage is reasonable and avoids customs
> and those hassles.
>
> 2. If you already built the board and don't want to re-flash the chip
> yourself, put the board in a small box and mail it to me. I'll re-flash
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> chip and then do the calibration and alignment of the board for you, along
> with any minor repairs if needed to get it going and pay return postage.
> What a deal!
>
> 3. Anyone who hasn't built the board and willing to pull the chip out of
> the
> package and send it to me to re-flash, that would be a big help.
> Thankfully,
> I packaged the processor seperately from the rest of the semiconductors so
> it's easy to find and get to. You can snip the end of the pink bag and
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> the chip out. The processor is of course the long skinny part behind the

> piece of white card. The other chip there is the DDS chip.
>
> When mailing the processor, first fold a small piece of tin foil around it
> for static protection, then tape it to some thin cardboard, like from a
> cerial box and have a piece on both sides of the chip. This will help keep
> the leads from being damaged by the postal machines. You put it in an
> letter
> envelope and mail it for 45 cents.
>
> 4. Everyone else I'll send a new processor.
>
> I'll hold off ordering new chips until Monday. In the mean time, let me
> know
> if your planing to send me your board or chip, so I'll know how many I
> need
> to order on Monday.
>
> Steve
>
>
>

8916. Re: [AT_Sprint] MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 15:55:48 UTC
From: saborns@aol.com
Topic: 8911 Message: 8916

Steve,

I am mailing the processor to you for re-flashing.

73, Steve K8IDN

Steven Bornstein K8IDN
475 E. North Broadway
Columbus, Ohio 43214
614 263-5819

In a message dated 4/26/2012 11:16:33 A.M. Eastern Daylight Time,
steve.kd1jv@... writes:

This BUG is serious enough I feel it must be addressed. We can't be
accidently transmitting the local messages.

One of the problems is it has to be done before May 15, when I leave for
Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT
to
hike for a couple of weeks. Then at the end of June, I'll be heading out
to
Montana for 2 months on the CDT (Continental Divide Trail). I'll be home
for
a few weeks in early June, but most that time will be spent getting ready
to
go west.

I will go ahead and buy a bunch of new processors to send out.

1. All the DX orders will get one for sure, because of the expense of
sending the original back. These are thin enough that they can go into a
standard letter envelope, so the postage is reasonable and avoids customs
and those hassles.

2. If you already built the board and don't want to re-flash the chip
yourself, put the board in a small box and mail it to me. I'll re-flash
the
chip and then do the calibration and alignment of the board for you, along
with any minor repairs if needed to get it going and pay return postage.
What a deal!

3. Anyone who hasn't built the board and willing to pull the chip out of
the
package and send it to me to re-flash, that would be a big help.
Thankfully,
I packaged the processor seperately from the rest of the semiconductors so

it's easy to find and get to. You can snip the end of the pink bag and slip
the chip out. The processor is of course the long skinny part behind the piece of white card. The other chip there is the DDS chip.

When mailing the processor, first fold a small piece of tin foil around it
for static protection, then tape it to some thin cardboard, like from a cerial box and have a piece on both sides of the chip. This will help keep the leads from being damaged by the postal machines. You put it in an letter
envelope and mail it for 45 cents.

4. Everyone else I'll send a new processor.

I'll hold off ordering new chips until Monday. In the mean time, let me know
if your planing to send me your board or chip, so I'll know how many I need
to order on Monday.

Steve

Yahoo! Groups Links

8917. Re: [AT_Sprint] MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 16:06:36 UTC
From: kd5kxf@classicnet.net
Topic: 8911 Message: 8917

I have a launchpad. If someone can post a step by step I will just reflash. I am only familiar with arduino and propellor though.

Mike kd5kxf

8918. Re: MTR - BUG FIX - serial # 094

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 16:29:37 UTC
From: cloud runner
Topic: 8918 Message: 8918

Steve,

I'll mail you the chip for MTR serial # 094 tomorrow (Friday).

TNX,

Fred - KT5X

----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Thursday, April 26, 2012 9:12 AM
Subject: [AT_Sprint] MTR - BUG FIX

This BUG is serious enough I feel it must be addressed. We can't be accidently transmitting the local messages.

One of the problems is it has to be done before May 15, when I leave for Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT to hike for a couple of weeks. Then at the end of June, I'll be heading out to Montana for 2 months on the CDT (Continental Divide Trail). I'll be home for a few weeks in early June, but most that time will be spent getting ready to go west.

I will go ahead and buy a bunch of new processors to send out.

1. All the DX orders will get one for sure, because of the expense of sending the original back. These are thin enough that they can go into a standard letter envelope, so the postage is reasonable and avoids customs and those hassles.

2. If you already built the board and don't want to re-flash the chip yourself, put the board in a small box and mail it to me. I'll re-flash the chip and then do the calibration and alignment of the board for you, along with any minor repairs if needed to get it going and pay return postage. What a deal!

3. Anyone who hasn't built the board and willing to pull the chip out of the package and send it to me to re-flash, that would be a big help. Thankfully, I packaged the processor seperately from the rest of the semiconductors so it's easy to find and get to. You can snip the end of the pink bag and slip the chip out. The processor is of course the long skinny part behind the piece of white card. The other chip there is the DDS chip.

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envelope and mail it for 45 cents.

4. Everyone else I'll send a new processor.

I'll hold off ordering new chips until Monday. In the mean time, let me know if your planing to send me your board or chip, so I'll know how many I need to order on Monday.

Steve

8919. Re: MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 16:31:20 UTC
From: ke7ngo11
Topic: 8911 Message: 8919

I will return the processor to you for flashing.

Clayton

sn071

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> This BUG is serious enough I feel it must be addressed. We can't be
> accidently transmitting the local messages.
>
> One of the problems is it has to be done before May 15, when I leave for
> Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT to
> hike for a couple of weeks. Then at the end of June, I'll be heading out to
> Montana for 2 months on the CDT (Continental Divide Trail). I'll be home for
> a few weeks in early June, but most that time will be spent getting ready to
> go west.
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> I will go ahead and buy a bunch of new processors to send out.
>
> 1. All the DX orders will get one for sure, because of the expense of
> sending the original back. These are thin enough that they can go into a
> standard letter envelope, so the postage is reasonable and avoids customs
> and those hassles.
>
> 2. If you already built the board and don't want to re-flash the chip
> yourself, put the board in a small box and mail it to me. I'll re-flash the
> chip and then do the calibration and alignment of the board for you, along
> with any minor repairs if needed to get it going and pay return postage.
> What a deal!
>
> 3. Anyone who hasn't built the board and willing to pull the chip out of the
> package and send it to me to re-flash, that would be a big help. Thankfully,
> I packaged the processor seperately from the rest of the semiconductors so
> it's easy to find and get to. You can snip the end of the pink bag and slip
> the chip out. The processor is of course the long skinny part behind the
> piece of white card. The other chip there is the DDS chip.
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> When mailing the processor, first fold a small piece of tin foil around it
> for static protection, then tape it to some thin cardboard, like from a
> cerial box and have a piece on both sides of the chip. This will help keep
> the leads from being damaged by the postal machines. You put it in an letter
> envelope and mail it for 45 cents.
>
> 4. Everyone else I'll send a new processor.
>

> I'll hold off ordering new chips until Monday. In the mean time, let me know
> if your planing to send me your board or chip, so I'll know how many I need
> to order on Monday.
>
> Steve
>

8920. Re: [AT_Sprint] Re: MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 17:33:52 UTC
From: wmorrill@montana.edu
Topic: 8911 Message: 8920

Steve-
My MTR is assembled, the easiest thing for me to do is mail it back for reflashing. I don't know how to reflash-- someone flashed me once, but that is another story...
Will put it in the mail tomorrow unless I hear differently.

Wendell
N7WM

> I will return the processor to you for flashing.
>
> Clayton
>
> sn071
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>>
>> This BUG is serious enough I feel it must be addressed. We can't be
>> accidently transmitting the local messages.
>>
>> One of the problems is it has to be done before May 15, when I leave for
>> Dayton, which doesn't leave much time. After FDIM, I'm heading for the
>> AT to
>> hike for a couple of weeks. Then at the end of June, I'll be heading out
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>> Montana for 2 months on the CDT (Continental Divide Trail). I'll be home
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>> a few weeks in early June, but most that time will be spent getting
>> ready to
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>> 1. All the DX orders will get one for sure, because of the expense of
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>> standard letter envelope, so the postage is reasonable and avoids
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>> 2. If you already built the board and don't want to re-flash the chip
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>> chip and then do the calibration and alignment of the board for you,
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>> with any minor repairs if needed to get it going and pay return postage.

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>> 3. Anyone who hasn't built the board and willing to pull the chip out of
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>> Thankfully,
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>> I'll hold off ordering new chips until Monday. In the mean time, let me
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>> if your planing to send me your board or chip, so I'll know how many I
>> need
>> to order on Monday.
>>
>> Steve
>>
>
>
>

8921. Re: [AT_Sprint] MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 18:08:28 UTC
From: Randy Moore
Topic: 8911 Message: 8921

Steve,

Haven't built the board yet, so I'll get the processor in the mail to you tomorrow (Friday).

Tnx es 73,
Randy, KS4L

On Apr 26, 2012, at 10:12 AM, "Steven Weber" <steve.kd1jv@...> wrote:

> This BUG is serious enough I feel it must be addressed. We can't be
> accidently transmitting the local messages.
>
> One of the problems is it has to be done before May 15, when I leave for
> Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT to
> hike for a couple of weeks. Then at the end of June, I'll be heading out to
> Montana for 2 months on the CDT (Continental Divide Trail). I'll be home for
> a few weeks in early June, but most that time will be spent getting ready to
> go west.
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> I will go ahead and buy a bunch of new processors to send out.
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> 1. All the DX orders will get one for sure, because of the expense of
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> and those hassles.
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> 2. If you already built the board and don't want to re-flash the chip
> yourself, put the board in a small box and mail it to me. I'll re-flash the
> chip and then do the calibration and alignment of the board for you, along
> with any minor repairs if needed to get it going and pay return postage.
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> 3. Anyone who hasn't built the board and willing to pull the chip out of the
> package and send it to me to re-flash, that would be a big help. Thankfully,
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> it's easy to find and get to. You can snip the end of the pink bag and slip
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> When mailing the processor, first fold a small piece of tin foil around it
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> cerial box and have a piece on both sides of the chip. This will help keep
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> envelope and mail it for 45 cents.
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> 4. Everyone else I'll send a new processor.
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> I'll hold off ordering new chips until Monday. In the mean time, let me know
> if your planing to send me your board or chip, so I'll know how many I need
> to order on Monday.
>
> Steve
>
>

8922. Re: [AT_Sprint] MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 18:20:14 UTC
From: Ronald M. Brown
Topic: 8911 Message: 8922

Hi Steve,

I will send you the processor Saturday 4/28.

Thanks,

Ron Brown
N3CAZ

On Apr 26, 2012, at 10:12 AM, "Steven Weber" <steve.kd1jv@gmail.com> wrote

On Apr 26, 2012, at 2:08 PM, Randy Moore <wrmoore47@...> wrote:

> Steve,
>
> Haven't built the board yet, so I'll get the processor in the mail to you tomorrow (Friday).
>
> Tnx es 73,
> Randy, KS4L
>
> On Apr 26, 2012, at 10:12 AM, "Steven Weber" <steve.kd1jv@...> wrote

8923. Re: MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 18:46:28 UTC
From: Philip L. Graitcer
Topic: 8911 Message: 8923

I've sent my processor back, but if someone could please post a step by step how to flash, I would love to learn about this. I am Mac based, if that matters.

Thanks,
Phil, W3HZZ SN/057

8924. Re: [AT_Sprint] MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 18:48:13 UTC
From: Steven Weber
Topic: 8885 Message: 8924

Using the Launchpad is pretty easy, all you'll need to do is make a little 3 wire jumper cable to go from the LP to the MTR. I'll write a little instruction paper over the weekend so you don't have to wade through TI and IAR's instructions for the software.

Steve

8925. Re: [AT_Sprint] MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 18:55:53 UTC
From: Jonathan
Topic: 8885 Message: 8925

...and if you learn to program the rig, you can use different firmware as they are made available (see also: ATS3B)
Jonathan KC7FYS

>_____
> From: Steven Weber <steve.kd1jv@...>
>Subject: Re: [AT_Sprint] MSP430 Reprograming for MTR
>
>
>Using the Launchpad is pretty easy, all you'll need
to do is make a little 3 wire jumper cable to go from the LP to the MTR.
I'll write a little instruction paper over the weekend so you don't have to wade
through TI and IAR's instructions for the software.
>Steve
>

8926. RE: [AT_Sprint] MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 18:56:18 UTC
From: Don Hinds
Topic: 8885 Message: 8926

Thanks Steve!

I ordered a LaunchPad yesterday, so once you divine a fix, I'll attempt to re-flash my own part.

73,
Don
WD4ON

8927. MTR - BUG FIX and new feature

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 19:07:53 UTC
From: Steven Weber
Topic: 8927 Message: 8927

MTR group,

Since I have to reflash or send new processors to everyone, I decided to add a new feature while I was at it. (hopefully bug free :) It's just a "power on" indicator by lighting up the decimal point on the display, which otherwise isn't being used for anything.

After running a battery pack down by leaving it pluged into the rig over night, I figured having a power on light might be a good feature to have, even though it adds a couple ma to the current. If you do want to save that couple of ma, the power on light will be easy enough to disable by removing the resistor (R34) which is in series with that led in the display.

Steve KD1JV

8928. Re: MTR - BUG FIX and new feature

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 19:18:56 UTC
From: Paul Mateer
Topic: 8927 Message: 8928

LOL...we always tell our customers that "software is NEVER done"

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8929. Re: [AT_Sprint] MTR - BUG FIX and new feature

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 19:19:52 UTC
From: John Shadle
Topic: 8927 Message: 8929

Sounds like a great feature, Steve.

Thanks!
-john W4PAH

On Thu, Apr 26, 2012 at 3:07 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> MTR group,
>
> Since I have to reflash or send new processors to everyone, I decided to
> add
> a new feature while I was at it. (hopefully bug free :) It's just a "power
> on" indicator by lighting up the decimal point on the display, which
> otherwise isn't being used for anything.
>
> After running a battery pack down by leaving it pluged into the rig over
> night, I figured having a power on light might be a good feature to have,
> even though it adds a couple ma to the current. If you do want to save
> that
> couple of ma, the power on light will be easy enough to disable by
> removing
> the resistor (R34) which is in series with that led in the display.
>
> Steve KD1JV
>
>
>

8930. Re: MTR - BUG FIX and new feature

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 19:30:49 UTC
From: Etienne Scott
Topic: 8927 Message: 8930

Steve -

Perhaps you could make the decimal point "blink" - reducing battery drain in half and perhaps getting more attention to see that the rig is "on"...

Thanks,
Etienne
K7ATN

--- In AT_Sprint@yahoogroups.com, John Shadle <shadle@...> wrote:
>
> Sounds like a great feature, Steve.
>
> Thanks!
> -john W4PAH
>
> On Thu, Apr 26, 2012 at 3:07 PM, Steven Weber <steve.kd1jv@...> wrote:
>
> > **
> >
> >
> > MTR group,
> >
> > Since I have to reflash or send new processors to everyone, I decided to
> > add
> > a new feature while I was at it. (hopefully bug free :) It's just a "power
> > on" indicator by lighting up the decimal point on the display, which
> > otherwise isn't being used for anything.
> >
> > After running a battery pack down by leaving it pluged into the rig over
> > night, I figured having a power on light might be a good feature to have,
> > even though it adds a couple ma to the current. If you do want to save
> > that
> > couple of ma, the power on light will be easy enough to disable by
> > removing
> > the resistor (R34) which is in series with that led in the display.
> >
> > Steve KD1JV
> >
> >
> >
>

8931. Re: [AT_Sprint] Re: MTR - BUG FIX and new feature

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 19:38:23 UTC
From: Paul Mateer
Topic: 8927 Message: 8931

Kinda like a "heat beat".....

On Thu, Apr 26, 2012 at 2:30 PM, Etienne Scott <climb2ski97215@...>wrote:

> **
>
>
> Steve -
>
> Perhaps you could make the decimal point "blink" - reducing battery drain
> in half and perhaps getting more attention to see that the rig is "on"...
>
> Thanks,
> Etienne
> K7ATN
>
> --- In AT_Sprint@yahoogroups.com, John Shadle <shadle@...> wrote:
> >
> > Sounds like a great feature, Steve.
> >
> > Thanks!
> > -john W4PAH
> >
> > On Thu, Apr 26, 2012 at 3:07 PM, Steven Weber <steve.kd1jv@...> wrote:
> >
> > > **
> > >
> > >
> > > MTR group,
> > >
> > > Since I have to reflash or send new processors to everyone, I decided
> to
> > > add
> > > a new feature while I was at it. (hopefully bug free :) It's just a
> "power
> > > on" indicator by lighting up the decimal point on the display, which
> > > otherwise isn't being used for anything.
> > >
> > > After running a battery pack down by leaving it pluged into the rig
> over
> > > night, I figured having a power on light might be a good feature to
> have,
> > > even though it adds a couple ma to the current. If you do want to save
> > > that
> > > couple of ma, the power on light will be easy enough to disable by

> > > removing
> > > the resistor (R34) which is in series with that led in the display.
> > >
> > > Steve KD1JV
> > >
> > >
> > >
> >
>
>
>

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

8932. RE: [AT_Sprint] Re: MTR - BUG FIX and new feature

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 19:43:05 UTC
From: Jake, ON4YZ
Topic: 8927 Message: 8932

Not the same, from a programming point of view...

Jake - ON4YZ

>>Perhaps you could make the decimal point "blink"

8933. Re: [AT_Sprint] MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 19:47:11 UTC
From: Bob Citronberg
Topic: 8911 Message: 8933

I will mail mine on fri or sat.....Bob ki4ght
--

8934. Re: [AT_Sprint] You Tube video, tutorial of hot plate usage and solder paste

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 21:48:50 UTC
From: Joseph Trombino, Jr
Topic: 8867 Message: 8934

Interesting video...the hot plate reached temps of 360F plus and the solder paste melted easily.

I assume the solder paste on the previously mounted and soldered components melts again....does this cause any concern overall??

Does the above method used in the video have any advantage(s) over using a hot plate at lower temps plus the embossing gun to melt the solder paste???

The method in the video seems like an easier way to go....but not having ever used solder paste before I'm just guessing.

73, Joe W2KJ

On Apr 22, 2012, at 6:22 PM, poikaa wrote:

> This is on You Tube and shows very well of the use of a hot plate and solder paste....
>
> http://www.youtube.com/watch?v=Uov0SPHKcnk
>
> 73 Rod KB8DNS
>

8935. Re: MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 22:15:33 UTC
From: n1rx
Topic: 8911 Message: 8935

Steve-
I'll re-flash mine in-situ once the updated firmware is available and posted.

-Bruce, N1RX
MTR s/n 069

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
> I'll hold off ordering new chips until Monday. In the mean time, let me know
> if your planing to send me your board or chip, so I'll know how many I need
> to order on Monday.
>
> Steve
>

8936. Re: [AT_Sprint] Re: MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 22:52:16 UTC
From: Bill Noyce
Topic: 8911 Message: 8936

My kit is half-built, and of course the processor is one of the first parts installed. I'll plan to re-flash it myself.
-- Bill, AB1AV
On Apr 26, 2012 6:15 PM, "n1rx" <bruce.beford@...> wrote:

> **
>
>
> Steve-
> I'll re-flash mine in-situ once the updated firmware is available and
> posted.
>
> -Bruce, N1RX
> MTR s/n 069
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
> > I'll hold off ordering new chips until Monday. In the mean time, let me
> know
> > if your planing to send me your board or chip, so I'll know how many I
> need
> > to order on Monday.
> >
> > Steve
> >
>
>
>

8937. Pony Express is slow...!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 23:14:27 UTC
From: Gil WA5YKK
Topic: 8911 Message: 8937

Steve;

I got a bit of a surprise today, another package came from you, and it turned out to be the MTR, S/N 092! This is a much smaller package than the earlier one of about two weeks ago, which I thought was the MTR, but it must be a late delivery of an ATS version... So, considering the efficiency of the Pony Express these days, I "finally" got the one last ATS, and now have the MTR in hand.

Will wonders never cease.

Took time out to find and download all the files for the different versions, so my printer will be working overtime, unless I do the intelligent thing and take the manual(s) to the one office to have the pages printed on a machine that can handle the load easier and cheaper than "Kodak and their expensive inks".

Now, to wait for "revisions to firmware", swap notes with Dale on how to do that myself, if possible, and make an old man's attempt to do today's little bench tech on a tiny thing that I really need trained ants to handle.

73's
Gil WA5YKK

>

8938. Re: [AT_Sprint] MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-26 23:43:07 UTC
From: Yannick DEVOS (XV4Y)
Topic: 8885 Message: 8938

Hi Steve,

I have just ordered a LaunchPad. So unless the order is not accepted by TI I will not need to be sent a new microcontroler.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 27 avr. 2012 à 01:48, Steven Weber a écrit :

>
>
> Using the Launchpad is pretty easy, all you'll need to do is make a little 3 wire jumper cable to go from the LP to the MTR. I'll write a little instruction paper over the weekend so you don't have to wade through TI and IAR's instructions for the software.
>
> Steve
>
>
>

8939. Re: [AT_Sprint] Pony Express is slow...!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 00:06:24 UTC
From: Steven Weber
Topic: 8911 Message: 8939

Was the first package in a small, priority mail cardboard box? I could have sent you two MTR's by mistake did I?

Steve

Steve;

I got a bit of a surprise today, another package came from you, and it turned out to be the MTR, S/N 092! This is a much smaller package than the earlier one of about two weeks ago, which I thought was the MTR, but it must be a late delivery of an ATS version... So, considering the efficiency of the Pony Express these days, I "finally" got the one last ATS, and now have the MTR in hand.

Will wonders never cease.

Took time out to find and download all the files for the different versions, so my printer will be working overtime, unless I do the intelligent thing and take the manual(s) to the one office to have the pages printed on a machine that can handle the load easier and cheaper than "Kodak and their expensive inks".

Now, to wait for "revisions to firmware", swap notes with Dale on how to do that myself, if possible, and make an old man's attempt to do today's little bench tech on a tiny thing that I really need trained ants to handle.

73's
Gil WA5YKK

8940. New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 00:11:58 UTC
From: AT_Sprint@yahoogroups.com
Topic: 154 Message: 8940

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the AT_Sprint
group.

File : /MTR /MTR_2.s43
Uploaded by : kd1jv <steve.kd1jv@...>
Description : Bug fixes as of 4/26/12

You can access this file at the URL:
http://groups.yahoo.com/group/AT_Sprint/files/MTR%20/MTR_2.s43

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

kd1jv <steve.kd1jv@...>

8941. Re: MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 01:34:15 UTC
From: k1thp
Topic: 8911 Message: 8941

Hi Steve,
My U10 chip from SN 119 will be in tomorrow mormings mail.
Thanks,
Dave K1THP

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> This BUG is serious enough I feel it must be addressed. We can't be
> accidently transmitting the local messages.
>
> One of the problems is it has to be done before May 15, when I leave for
> Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT to
> hike for a couple of weeks. Then at the end of June, I'll be heading out to
> Montana for 2 months on the CDT (Continental Divide Trail). I'll be home for
> a few weeks in early June, but most that time will be spent getting ready to
> go west.
>
> I will go ahead and buy a bunch of new processors to send out.
>
> 1. All the DX orders will get one for sure, because of the expense of
> sending the original back. These are thin enough that they can go into a
> standard letter envelope, so the postage is reasonable and avoids customs
> and those hassles.
>
> 2. If you already built the board and don't want to re-flash the chip
> yourself, put the board in a small box and mail it to me. I'll re-flash the
> chip and then do the calibration and alignment of the board for you, along
> with any minor repairs if needed to get it going and pay return postage.
> What a deal!
>
> 3. Anyone who hasn't built the board and willing to pull the chip out of the
> package and send it to me to re-flash, that would be a big help. Thankfully,
> I packaged the processor seperately from the rest of the semiconductors so
> it's easy to find and get to. You can snip the end of the pink bag and slip
> the chip out. The processor is of course the long skinny part behind the
> piece of white card. The other chip there is the DDS chip.
>
> When mailing the processor, first fold a small piece of tin foil around it
> for static protection, then tape it to some thin cardboard, like from a
> cerial box and have a piece on both sides of the chip. This will help keep
> the leads from being damaged by the postal machines. You put it in an letter
> envelope and mail it for 45 cents.
>
> 4. Everyone else I'll send a new processor.
>

> I'll hold off ordering new chips until Monday. In the mean time, let me know
> if your planing to send me your board or chip, so I'll know how many I need
> to order on Monday.
>
> Steve
>

8942. New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 02:06:02 UTC
From: AT_Sprint@yahoogroups.com
Topic: 154 Message: 8942

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the AT_Sprint
group.

File : /MTR /MTR flashing with launchpad.pdf
Uploaded by : kd1jv <steve.kd1jv@...>
Description : Step by step Launchpad to MTR programming

You can access this file at the URL:
http://groups.yahoo.com/group/AT_Sprint/files/MTR%20/MTR%20flashing%20with%20launchpad.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

kd1jv <steve.kd1jv@...>

8943. Re: [AT_Sprint] Re: MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 02:37:13 UTC
From: John Aeiker
Topic: 8911 Message: 8943

Steve-
I will send you the chip for reflashing Monday. Thanks!

Regards, John

Sent from my iPhone.

>

8944. Re: [AT_Sprint] Pony Express is slow...!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 02:37:30 UTC
From: Gil WA5YKK
Topic: 8911 Message: 8944

Steve, Dale;

"My bad", I didn't look closely enough at the package to realize that it's Dale's finished ATS-4 of mine, that he told me to look for in the mail soon. Now, with some egg on my face, I'll proceed to find out where to put the little rig, set it up so I can play with all the code I can manage with arthritic fingers and hands.
A note to anyone who sends a rig to Dale to flesh out, he's a genuine artist, and the little metal box looks as though it was made in a factory!

73's, & the winter is "over", spring is actively here, my shack has ants galore - and NONE of them can do CW!

Gil WA5YKK

On 4/26/2012 7:06 PM, Steven Weber wrote:
>
> Was the first package in a small, priority mail cardboard box? I
> could have sent you two MTR's by mistake did I?
> Steve
> Steve;
>
> I got a bit of a surprise today, another package came from you, and
> it turned out to be the MTR, S/N 092! This is a much smaller package
> than the earlier one of about two weeks ago, which I thought was the
> MTR, but it must be a late delivery of an ATS version... So,
> considering the efficiency of the Pony Express these days, I "finally"
> got the one last ATS, and now have the MTR in hand.
>
> Will wonders never cease.
>
> Took time out to find and download all the files for the different
> versions, so my printer will be working overtime, unless I do the
> intelligent thing and take the manual(s) to the one office to have the
> pages printed on a machine that can handle the load easier and cheaper
> than "Kodak and their expensive inks".
>
> Now, to wait for "revisions to firmware", swap notes with Dale on how
> to do that myself, if possible, and make an old man's attempt to do
> today's little bench tech on a tiny thing that I really need trained
> ants to handle.
>
> 73's
> Gil WA5YKK
>

>
>
>

8945. Re: [AT_Sprint] Pony Express is slow...!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 03:15:52 UTC
From: nicehouse101@yahoo.com
Topic: 8911 Message: 8945

Dale is a very cool guy to have on your friends list. And Steve W is pretty cool too. HIHI

From: Gil WA5YKK <WA5YKK@...>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, April 26, 2012 7:37 PM
Subject: Re: [AT_Sprint] Pony Express is slow...!!!

Steve, Dale;

"My bad", I didn't look closely enough at the package to realize that it's Dale's finished ATS-4 of mine, that he told me to look for in the mail soon. Now, with some egg on my face, I'll proceed to find out where to put the little rig, set it up so I can play with all the code I can manage with arthritic fingers and hands.
A note to anyone who sends a rig to Dale to flesh out, he's a genuine artist, and the little metal box looks as though it was made in a factory!

73's, & the winter is "over", spring is actively here, my shack has ants galore - and NONE of them can do CW!

Gil WA5YKK

On 4/26/2012 7:06 PM, Steven Weber wrote:

>Was the first package in a small, priority mail cardboard box? I could have sent you two MTR's by mistake did I?
>
>Steve
>
>
>
>Steve;
>
> I got a bit of a surprise today, another package came from you, and it turned out to be the MTR, S/N 092! This is a much smaller package than the earlier one of about two weeks ago, which I thought was the MTR, but it must be a late delivery of an ATS version... So, considering the efficiency of the Pony Express these days, I "finally" got the one last ATS, and now have the MTR in hand.
>
>Will wonders never cease.
>
>Took time out to find and download all the files for the different versions, so my printer will be working overtime, unless I do the intelligent thing and take the manual(s) to the one office to have the pages printed on a machine that can handle the load easier and cheaper than "Kodak and their expensive inks".
>
>Now, to wait for "revisions to firmware", swap notes with Dale on how to do that myself,

if possible, and make an old man's attempt to do today's little bench tech on a tiny thing that I really need trained ants to handle.
>
>73's
>Gil WA5YKK
>
>
>
>
>>

8946. Re: MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 03:24:24 UTC
From: John Hoaglun
Topic: 8885 Message: 8946

Hi Steve,

My MTR is about 50% built so I will either flash it myself or send the board to you once it is done.

I suppose this is a reason to learn about the MSP430 (add to the collection of PICs, AVR, Freescale, etc)

Thanks for the great product & support.

73

--
John Hoaglun
NG0R - EN25ue
http://www.hoaglun.com

8947. Re: [AT_Sprint] MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 03:43:52 UTC
From: Yannick (XV4Y)
Topic: 8885 Message: 8947

In fact Steve I should thank you for the bug.
That will give me a good reason to play with the MSP430.
I read your procedure and understood it had to be reprogrammed inline so it is powered by the MTR board.
I also found this page describing how to use XCode IDE (Mac OS X) to reprogram it, so I just have to wait for the two parcels to arrive...
http://processors.wiki.ti.com/index.php/MSP430_LaunchPad_Mac_OS_X
and
http://osx-launchpad.blogspot.com/

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

Le 27 avr. 2012 à 01:48, Steven Weber a écrit :

>
>
> Using the Launchpad is pretty easy, all you'll need to do is make a little 3 wire jumper cable to go from the LP to the MTR. I'll write a little instruction paper over the weekend so you don't have to wade through TI and IAR's instructions for the software.
>
> Steve
>
>
>

8948. Re: [AT_Sprint] New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 04:41:41 UTC
From: John Shadle
Topic: 154 Message: 8948

Looks like it's a lot easier to do the flash once the chip is installed,
versus when it's loose, right Steve?
-john W4PAH

On Thu, Apr 26, 2012 at 10:06 PM, <AT_Sprint@yahoogroups.com> wrote:

> **
>
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the AT_Sprint
> group.
>
> File : /MTR /MTR flashing with launchpad.pdf
> Uploaded by : kd1jv <steve.kd1jv@...>
> Description : Step by step Launchpad to MTR programming
>
> You can access this file at the URL:
>
>
http://groups.yahoo.com/group/AT_Sprint/files/MTR%20/MTR%20flashing%20with%20launchpad.pdf
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
> Regards,
>
> kd1jv <steve.kd1jv@...>
>
>
>
>

8949. Re: New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 05:31:17 UTC
From: rgkellner@aol.com
Topic: 1459 Message: 8949

Steve,
I have MTR SN075, and I have a TI MSP-FET430UIF programmer so I'll be able to reprogram the processor myself.

You have done another amazing job on this rig and the documentation!
Thank you!
Rich W5RXP

8950. Re: New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 06:49:11 UTC
From: jgaffke
Topic: 1459 Message: 8950

Maybe somebody that uses IAR regularly could try out the
instructions in the file "MTR flashing with launchpad.pdf
I didn't have much luck.

I downloaded the "code size limited" IAR software from
http://processors.wiki.ti.com/index.php/IAR_Embedded_Workbench_for_TI_MSP430
Just that compressed install file is 134 MBytes.
Once IAR's up, I didn't see the File/Open/Projects menu
selection mentioned in the pdf file. I assume that should
be more like Projects/Add_Existing_Project
Unfortunately, the provided MTR.eww doesn't seem to be a
project file, I assume it should be something like MTR.ewp.

The MTR_2.s43 file seems to be IAR specific, as the include
files are not compatible with the GNU tools for the MSP430.
So you'll probably need access to an MSWindows box to burn
flash under IAR unless somebody that knows what they are
doing can port this to Ubuntu and/or OSX.

The MSP430 processor core is really clean, the on chip
peripherals maybe a bit more difficult to figure out than
they should be, and the IAR (and CSS) software environments
are unfortunately badly bloated.

Jerry, KE7ER

8951. Another DIY reprogram

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 08:41:52 UTC
From: David
Topic: 8951 Message: 8951

Hi Steve, don't send me another cpu as I will reprogram mine (s/n 050). I can procure one of the programming kits localy.

All the best, Dave VK2DDJ, Berry NSW Australia

8952. MTR s/n 089 it's Allllliivvveee

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 03:28:19 UTC
From: kd5kxf
Topic: 8952 Message: 8952

I got the replacement trimmers in the mail today (thanks Steve!!!) and installed them tonight. Started testing and found signs of life... display was not right. Checked joints on it and resistors and on the processor and decided to touch up some on the processor. It got a bit better. Decided to get out my higher power magnifier... hmmm it all looks ok but saw a gleem between two pins. Hit it with the braid again and tried power again... beautiful, glorious red lcd as supposed to be. Just got through peaking the band trimmer on 40, very nice receiver. I will peak 20 tomorrow and put it in the case and on the air for QRPTTF. I don't care how many rigs I build... it is just magic when you peak a trimmer and that CW just starts rolling in. Thanks for the help and hints guys, hope to work some of you this weekend.

Mike KD5KXF

8953. Re: MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 09:40:13 UTC
From: Colin
Topic: 8911 Message: 8953

Thanks Steve, kit S/N 131 arrived in the mail yesterday.

I'm not very confident with the whole programming business, so will appreciate the new chip. I will extract the old chip from the kit and mail it back.

Thank you for putting together such a great kit, I can imagine how much work putting together a kit like this involves, your efforts are very much appreciated.

73
Colin
M0CGH
West Yorkshire, England

8956. Re: [AT_Sprint] Pony Express is slow...!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 15:31:11 UTC
From: Steven Weber
Topic: 8911 Message: 8956

A note to anyone who sends a rig to Dale to flesh out, he's a genuine artist, and the little metal box looks as though it was made in a factory!

Umm, the ATS-4 series boxes were made in a factory - Ten-Tec's metal shop to be specific.

Steve KD1JV

8957. Re: New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 15:39:47 UTC
From: jgaffke
Topic: 1459 Message: 8957

I don't have my rig with me now, but using IAR looks easy enough.
Will try to get back to it Sunday or Monday.

Steve's MTR.eww file is apparently a workspace file.
I think you can just go into IAR fresh, create a new workspace,
then a project, add the MTR_2.s43 file, then Project/Rebuild_All

> the include files are not compatible with the GNU tools
Need to change this line in MTR_w.s43 #include "msp430F2132.h"
to #include "msp430x21x2.h"
but there's still a few things to fix, as assembler syntax
for the Gnu tools is a bit different.

> unfortunately badly bloated
To a guy that started out on a PDP8 with 4k of core and paper tape.

Jerry, KE7ER

8958. Re: MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 13:57:27 UTC
From: unused404
Topic: 8885 Message: 8958

Hi Steve,

I have a Mac and don't do programming as a rule. I took a shot at downloading MacPort for OSX (seems required) but it did not go smoothly. The instructions must assume just a bit more Mac skill than I have so I could not get the MSP430 development code to install etc. As much as I would like to get my feet wet on reprogramming the Chip, today I will be sending in the chip for exchange - SN 105.

Ben KE3KQ

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Using the Launchpad is pretty easy, all you'll need to do is make a little 3 wire jumper cable to go from the LP to the MTR. I'll write a little instruction paper over the weekend so you don't have to wade through TI and IAR's instructions for the software.
>
> Steve
>

8959. Re: MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 01:29:52 UTC
From: radio_kx0r
Topic: 8911 Message: 8959

Steve,

I'll mail you the processor for S/N 100 tomorrow.

Thanks

Carey
KX0R

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> This BUG is serious enough I feel it must be addressed. We can't be
> accidently transmitting the local messages.
>
> One of the problems is it has to be done before May 15, when I leave for
> Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT to
> hike for a couple of weeks. Then at the end of June, I'll be heading out to
> Montana for 2 months on the CDT (Continental Divide Trail). I'll be home for
> a few weeks in early June, but most that time will be spent getting ready to
> go west.
>
> I will go ahead and buy a bunch of new processors to send out.
>
> 1. All the DX orders will get one for sure, because of the expense of
> sending the original back. These are thin enough that they can go into a
> standard letter envelope, so the postage is reasonable and avoids customs
> and those hassles.
>
> 2. If you already built the board and don't want to re-flash the chip
> yourself, put the board in a small box and mail it to me. I'll re-flash the
> chip and then do the calibration and alignment of the board for you, along
> with any minor repairs if needed to get it going and pay return postage.
> What a deal!
>
> 3. Anyone who hasn't built the board and willing to pull the chip out of the
> package and send it to me to re-flash, that would be a big help. Thankfully,
> I packaged the processor seperately from the rest of the semiconductors so
> it's easy to find and get to. You can snip the end of the pink bag and slip
> the chip out. The processor is of course the long skinny part behind the
> piece of white card. The other chip there is the DDS chip.
>
> When mailing the processor, first fold a small piece of tin foil around it
> for static protection, then tape it to some thin cardboard, like from a
> cerial box and have a piece on both sides of the chip. This will help keep
> the leads from being damaged by the postal machines. You put it in an letter
> envelope and mail it for 45 cents.

>
> 4. Everyone else I'll send a new processor.
>
> I'll hold off ordering new chips until Monday. In the mean time, let me know
> if your planing to send me your board or chip, so I'll know how many I need
> to order on Monday.
>
> Steve
>

8960. IAR files

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 18:49:56 UTC
From: Steven
Topic: 8960 Message: 8960

I created a new sub-folder named "IAR" in the MTR folder.

This folder contains all the files the IDE generates, so it should be a duplicate of what is on my PC.

Steve

8961. Bay Area Help With Deaf ATS3B?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 02:16:30 UTC
From: Jonathan
Topic: 8961 Message: 8961

I'm posting this as a kind of shot-in-the-dark, but what the heck. I am in San Francisco with my XYL, for her Master's commencement Saturday (Golden Gate Univ.)--naturally I brought my well-traveled 3B and necessaries for QRV in Golden Gate Park, or Henry Cowell Redwoods--somewhere when I have a couple hours. I set the rig up in our hotel room to make sure I'm ready to roll--and the rig's deaf! It powers up perfectly, all functions fine. Xmit seems to work w/ 11.7V from my battery pack. I hear plenty of hiss from the audio amplifier in earbuds and external powered speaker--but no response from touching the antenna connector as usual.

-connection from board to antenna rca jack center connector OK
-tapping on various connections with a alligator clip gives clicks in the headphones--I know they're good, and impedance is correct

I don't have the ability to solder or really troubleshoot this rig, but I do have an Autek RF-1 that sends 'chirps' to the rig when it's used to check antenna swr nearby (NOT connected physically to the rig).

Is there something I'm overlooking, or is there an ATS-friendly ham in the area? We are in the union square area until Tuesday afternoon. Email me **off-list** if you might be able to help in person, or maybe there's some way I can bring my RX back?

Oh, well, it's a great trip without QRP, but everybody knows how much fun it can be WITH?
Thanks,
Jonathan KC7FYS

8962. Re: [AT_Sprint] MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 06:36:00 UTC
From: John Hestenes
Topic: 8911 Message: 8962

Steve:
I will send my chip Saturday.
John KJ6CVB

On Apr 26, 2012, at 8:12 AM, Steven Weber wrote:

> This BUG is serious enough I feel it must be addressed. We can't be
> accidently transmitting the local messages.
>
> One of the problems is it has to be done before May 15, when I leave for
> Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT to
> hike for a couple of weeks. Then at the end of June, I'll be heading out to
> Montana for 2 months on the CDT (Continental Divide Trail). I'll be home for
> a few weeks in early June, but most that time will be spent getting ready to
> go west.
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> I will go ahead and buy a bunch of new processors to send out.
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> 1. All the DX orders will get one for sure, because of the expense of
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> and those hassles.
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> chip and then do the calibration and alignment of the board for you, along
> with any minor repairs if needed to get it going and pay return postage.
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> 3. Anyone who hasn't built the board and willing to pull the chip out of the
> package and send it to me to re-flash, that would be a big help. Thankfully,
> I packaged the processor seperately from the rest of the semiconductors so
> it's easy to find and get to. You can snip the end of the pink bag and slip
> the chip out. The processor is of course the long skinny part behind the
> piece of white card. The other chip there is the DDS chip.
>
> When mailing the processor, first fold a small piece of tin foil around it
> for static protection, then tape it to some thin cardboard, like from a
> cerial box and have a piece on both sides of the chip. This will help keep
> the leads from being damaged by the postal machines. You put it in an letter
> envelope and mail it for 45 cents.
>
> 4. Everyone else I'll send a new processor.
>
> I'll hold off ordering new chips until Monday. In the mean time, let me know

> if your planing to send me your board or chip, so I'll know how many I need
> to order on Monday.
>
> Steve
>
>

8963. RE: [AT_Sprint] Pony Express is slow...!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 15:39:41 UTC
From: Dale Putnam
Topic: 8911 Message: 8963

The box is what is so superbly designed by Steve, and sent with each kit. Ten-Tec does a good job with the metal work.
I simply strive to keep it in pristine condition as the radio is built and completed.Excellant job Steve,Thank you Gil,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Fri, 27 Apr 2012 11:31:11 -0400
Subject: Re: [AT_Sprint] Pony Express is slow...!!!

A note to anyone who sends a rig to Dale to flesh out, he's a genuine artist, and the little metal box looks as though it was made in a factory!

Umm, the ATS-4 series boxes were made in a factory - Ten-Tec's metal shop to be specific.

Steve KD1JV

8964. Re: [AT_Sprint] Re: MSP430 Reprograming for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 06:18:35 UTC
From: Yannick (XV4Y)
Topic: 8885 Message: 8964

Hi Ben,

Yesterday I made some research and it seems the main documentation about using the MSP430 with OS X is outdated (but still works).
You have better infos here :
http://processors.wiki.ti.com/index.php/MSP430_LaunchPad_(MSP-EXP430G2)
As far as I understand, the easiest way is now to use Energia (Arduino port) that will install everything you need :
https://github.com/energia/Energia/downloads
After that, if you'd like to use XCode as IDE, you can install the template for it :
http://embedxcode.weebly.com/

About the LaunchPad. Yesterday I tried to order one.
My first attempt lead to an error on the website, so I did a second one and it works.
Today I received nice emails from TI telling me that I have 2 launchpad shipped...
4.30$ is not a big deal but still too much regarding my HAM radio budget and needs.
I will have hard time to explain to my wife why I have ordered twice the same thing!
Next step is too find someone to give the spare LaunchPad to...

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

Le 27 avr. 2012 à 20:57, unused404 a écrit :

> Hi Steve,
>
> I have a Mac and don't do programming as a rule. I took a shot at downloading MacPort for OSX (seems required) but it did not go smoothly. The instructions must assume just a bit more Mac skill than I have so I could not get the MSP430 development code to install etc. As much as I would like to get my feet wet on reprogramming the Chip, today I will be sending in the chip for exchange - SN 105.
>
> Ben KE3KQ
>
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>>
>> Using the Launchpad is pretty easy, all you'll need to do is make a little 3 wire jumper cable to go from the LP to the MTR. I'll write a little instruction paper over the weekend so you don't have to wade through TI and IAR's instructions for the software.
>>

>> Steve
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

8965. Re: [AT_Sprint] New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 15:51:40 UTC
From: Steven Weber
Topic: 1459 Message: 8965

Looks like it's a lot easier to do the flash once the chip is installed, versus when it's loose, right Steve?

Yes. The way I flash the "raw" chip is to press it against the pads of an un-populated board, which just has a by-pass cap on the supply line. In this case, the Launchpad also supplies power. In order to get the pins to line up with the pads, I have a guide mounted to the board to set the bottom of the chip against. Sort of like the ruler guide I show in the manual, but perminately attached.

Holding the chip against a board is the same way I programmed the larger SOC processors, but since the leads are farther apart and somewhat larger then the TSSOP, it was easier to get them aligned. Thankfully for the TSSOP chips, all the connections which have to be made are on the same side of the chip, which helps a lot.

This works *most* of the time, but when doing a whole lot of chips at a time, my finger gets real sore pushing the chip hard enough against the board to make reliable contact. If I get a miss program, I have to unplug the USB cable to reset the LP board. If I try to restart the download without resetting the board, I get a "communications error" and "Debug session terminated" error messages. I'm not sure if that is a bug in the Launchpad, the IAR IDE or the way my USB works in my PC, but it is a pain each time it happens.

I've tried to devise mechanical means to hold the chip in place, but in the end it turns out to be quicker to just use my finger! Getting a commercial socket of some kind to hold the chip is just insanely expensive.

Steve KD1JV

8966. Re: Another DIY reprogram

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 10:41:10 UTC
From: warren_3byd
Topic: 8951 Message: 8966

Hi Steve,

I will also re-program my own.
73,
Warren VK3BYD s/n 123

--- In AT_Sprint@yahoogroups.com, "David" <djblunn@...> wrote:
>
> Hi Steve, don't send me another cpu as I will reprogram mine (s/n 050). I can procure one of the programming kits localy.
>
> All the best, Dave VK2DDJ, Berry NSW Australia
>

8967. New, looking for a ATS 3x

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 20:20:15 UTC
From: dk7fh
Topic: 8967 Message: 8967

Hi folks,
I`m new here, have read a lot, downloaded and studdied manuals and am very interested in the ATS 3. Is there a chance for me to become owner of a kit or a ready built one? Perhaps anyone who wants to sell his ATS? My mother in law stays in Houston/TX on a visit and could take things back to Germany.
Thanks for any reply.
Frank, dk7fh

8968. Re: You Tube video, tutorial of hot plate usage and solder paste

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-27 16:57:51 UTC
From: kd5kxf
Topic: 8867 Message: 8968

I can attest that at 200 degrees on the hotplate with 3 pennies as spacers under each corner, I did not lose any pieces off the backside while I hot air gunned the top side. That would be my concern at the higher temps... knocking pieces off and ending up with smd stirfry in the bottom of that skillet. I cannot imagine how bad getting some r's and c's and a dds or processor all stuck together unstuck would be... my guess is it would be a show stopper.

Mike KD5KXF

--- In AT_Sprint@yahoogroups.com, "Joseph Trombino, Jr" <jotrom@...> wrote:
>
> Interesting video...the hot plate reached temps of 360F plus and the solder paste melted easily.
>
> I assume the solder paste on the previously mounted and soldered components melts again....does this cause any concern overall??
>
> Does the above method used in the video have any advantage(s) over using a hot plate at lower temps plus the embossing gun to melt the solder paste???
>
> The method in the video seems like an easier way to go....but not having ever used solder paste before I'm just guessing.
>
> 73, Joe W2KJ
>
>
> On Apr 22, 2012, at 6:22 PM, poikaa wrote:
>
> > This is on You Tube and shows very well of the use of a hot plate and solder paste....
> >
> > http://www.youtube.com/watch?v=Uov0SPHKcnk
> >
> > 73 Rod KB8DNS
> >
>

8969. RE: [AT_Sprint] Re: You Tube video, tutorial of hot plate usage and solder paste

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 12:45:01 UTC
From: Dale Putnam
Topic: 8867 Message: 8969

On a standard sized cup holder at 200 degrees, with the boards spaced off the surface two pennies high, I've found I can do 4 boards at a time, stacking the active part of the board in the open and overlapping the part of the board I am not working on. The temp drops off the more boards stacked, yet, a tad longer with hot air, and the solder paste flows just fine. The key to that is air flow control and temp of the air. Too hot too quick maybe a problem because you may introduce undesired heating and cooling differential problems in nearby areas of the board, or toast the board. Take your time, and be patient. It all flows together. 200 F on the heating surface, works well.

--... ...--
Dale - WC7S in Wy

8970. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 15:31:32 UTC
From: Rich
Topic: 8766 Message: 8970

Anyone try a coffee carafe warmer? Like:
http://www.capitalcityrestaurantsupply.com/prodDetail.cfm/1589830
Would provide a bit more surface area. I have not found temperature
information, but I suspect they keep temperatures below boiling,
probably around 190F or so.

Rich
NU6T

On 4/17/2012 6:24 AM, Dale Putnam wrote:
>
> Hi John,
> That's the shape of the one that I use.. and I don't have to space
> the board up... so it doesn't over cook, with pennies, or ???
> If you don't like that one... let me know, k? Cause the one I have is
> plastic... and the hot air gun has over toasted the plastic, in places.
>
> --... ...-- Dale - WC7S in Wy
>
> ---
> To: AT_Sprint@yahoogroups.com
> From: shadle@...
> Date: Tue, 17 Apr 2012 09:15:55 -0400
> Subject: [AT_Sprint] beverage warmer source?
>
> Hi all,
> I was wondering if anyone has a good, reliable beverage warmer they
> can recommend. I picked up this device at a Radio Shack sale some time
> in the past, but the board doesn't touch the warmer, so the heat is
> never transferred.
>
> http://www.tulsasuperads.com/electronics_For_Sale/C513A274151P5/JOURNEY_S_EDGE_2_0_USB_B
everage_Warmer.aspx
>
> Is there some way I should "modify" the beverage warmer so that it
> touches the board, or are there other beverage warmers out there that
> are better?
>
> In anticipation of the MTR kit arriving, I did some solder paste work
> with a few other projects that came in the mail recently. I'll never
> go back to soldering by hand of SMD parts, when possible. Of course, I
> was only using the hot air gun and not a beverage warmer beneath.
> Worked fine, but I can imagine using the warmer would decrease the
> time a bit.
>

> Thanks.
> -john W4PAH
> Madison, WI
>
>

8971. Re: beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 16:52:00 UTC
From: radio_kx0r
Topic: 8766 Message: 8971

Several years ago I bought my "embossing tool" (= hot air SMT device) at Hobby Lobby. While in the store I walked around looking at things for sale, and in the Candle Department I found a variety of candle warmers. This are like cup warmers. They are used to heat fragrant candle wax that is put up in glass containers.

When I tested my candle warmer, I found that the surface was almost hot enough to boil water. The heat wasn't perfectly even across the surface, however. I made a heat spreader out of a piece of aluminum plate 1/4" thick. I supported it on coins.

I plugged the candle warmer into my bench variac, turned it up to 140VAC, and then water drops danced and spattered across the surface of the aluminum plate after it warmed up. The device is just a resistor, and it can take 140V OK for a while. The aluminum plate takes 10 or 15 minutes to come up to temperature, but the heat is very even.

The PCB with parts prepared with solder paste is placed on the aluminum plate above the candle warmer. Allow everything to warm up for 15 minutes or so. Then start the hot air tool, and gradually bring it closer to the parts to be soldered. Keep it moving so the heat is even over the area you want to melt. It should be approximately perpendicular to the PCB so there's no sideways air pressure on the parts. You shouldn't have to get closer than 2 inches from the nozzle of the tool. Take your time.

Once the solder paste starts to melt, you can see it shine. Use a bright light and magnification so you can see what's happening. Be sure that all the parts you need to solder actually melt.

It's worth practicing with a scrap PCB or a simple project.

It's probably best to heat and reflow the most complex side of the PCB first. You can do the entire side in one session, or perhaps 2 sessions.

With the candle warmer adjusted correctly - just above the point where water drops dance - and the PCB up on coins, when you reflow the top side of the PCB with the hot air tool, the parts on the bottom won't reflow. This is true if you are careful and avoid excess heat on the top side. Again - take your time - getting the hot air tool too close to the top side could overheat the PCB and damage it, and also could melt the parts on the bottom.

I'm real skeptical of using skillets and such, because the temperature can go higher than what we need for the preheat part of the process. This could be a real problem, because the bottom side might melt while reflowing the top side.

Whatever you use, the guideline of using a temperature that causes water drops to boil and skitter - but no more - seems OK.

Hopefully some of the rest of you can add to this. In any case it worked for me. Unfortunately I haven't done any of this work since I built my ATS-3B, so I'll have practice before doing the MTR.

Use a bright light, strong reading glasses, and plenty of coffee or tea...even old hams can build surface mount radios!

72
George/Carey
KX0R

--- In AT_Sprint@yahoogroups.com, Rich <rehill@...> wrote:
>
> Anyone try a coffee carafe warmer? Like:
> http://www.capitalcityrestaurantsupply.com/prodDetail.cfm/1589830
> Would provide a bit more surface area. I have not found temperature
> information, but I suspect they keep temperatures below boiling,
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>
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> On 4/17/2012 6:24 AM, Dale Putnam wrote:
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> > Hi John,
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> > plastic... and the hot air gun has over toasted the plastic, in places.
> >
> > --... ...-- Dale - WC7S in Wy
> >
> > ---
> > To: AT_Sprint@yahoogroups.com
> > From: shadle@...
> > Date: Tue, 17 Apr 2012 09:15:55 -0400
> > Subject: [AT_Sprint] beverage warmer source?
> >
> > Hi all,
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> > Is there some way I should "modify" the beverage warmer so that it
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> > Thanks.
> > -john W4PAH
> > Madison, WI
> >
> >
>

8972. Re: beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 17:00:51 UTC
From: radio_kx0r
Topic: 8766 Message: 8972

There is a pretty good photo of my Candle Warmer with the aluminum heat spreader hidden in the Photos section of this website. I just found my tools here, and what I used was a thin aluminum plate on the candle warmer right under the 1/4" thick plate. The coins were only used for the part when I flipped the board over and reflowed the second side.

The reason for the coins is to avoid pressure on parts just in case they actually reflow on the bottom side. They actually could reflow on the bottom side, but they probably won't move if there is no pressure on them. Surface tension will hold them.

I'll use this same setup for the MTR.

KX0R

--- In AT_Sprint@yahoogroups.com, "radio_kx0r" <careyfuller@...> wrote:
>
> Several years ago I bought my "embossing tool" (= hot air SMT device) at Hobby Lobby. While in the store I walked around looking at things for sale, and in the Candle Department I found a variety of candle warmers. This are like cup warmers. They are used to heat fragrant candle wax that is put up in glass containers.
>
> When I tested my candle warmer, I found that the surface was almost hot enough to boil water. The heat wasn't perfectly even across the surface, however. I made a heat spreader out of a piece of aluminum plate 1/4" thick. I supported it on coins.
>
> I plugged the candle warmer into my bench variac, turned it up to 140VAC, and then water drops danced and spattered across the surface of the aluminum plate after it warmed up. The device is just a resistor, and it can take 140V OK for a while. The aluminum plate takes 10 or 15 minutes to come up to temperature, but the heat is very even.
>
> The PCB with parts prepared with solder paste is placed on the aluminum plate above the candle warmer. Allow everything to warm up for 15 minutes or so. Then start the hot air tool, and gradually bring it closer to the parts to be soldered. Keep it moving so the heat is even over the area you want to melt. It should be approximately perpendicular to the PCB so there's no sideways air pressure on the parts. You shouldn't have to get closer than 2 inches from the nozzle of the tool. Take your time.
>
> Once the solder paste starts to melt, you can see it shine. Use a bright light and magnification so you can see what's happening. Be sure that all the parts you need to solder actually melt.
>
> It's worth practicing with a scrap PCB or a simple project.
>
> It's probably best to heat and reflow the most complex side of the PCB first. You can do the entire side in one session, or perhaps 2 sessions.
>
> With the candle warmer adjusted correctly - just above the point where water drops dance

- and the PCB up on coins, when you reflow the top side of the PCB with the hot air tool, the parts on the bottom won't reflow. This is true if you are careful and avoid excess heat on the top side. Again - take your time - getting the hot air tool too close to the top side could overheat the PCB and damage it, and also could melt the parts on the bottom.
>
> I'm real skeptical of using skillets and such, because the temperature can go higher than what we need for the preheat part of the process. This could be a real problem, because the bottom side might melt while reflowing the top side.
>
> Whatever you use, the guideline of using a temperature that causes water drops to boil and skitter - but no more - seems OK.
>
> Hopefully some of the rest of you can add to this. In any case it worked for me. Unfortunately I haven't done any of this work since I built my ATS-3B, so I'll have practice before doing the MTR.
>
> Use a bright light, strong reading glasses, and plenty of coffee or tea...even old hams can build surface mount radios!
>
> 72
> George/Carey
> KX0R
>
>
>
> --- In AT_Sprint@yahoogroups.com, Rich <rehill@> wrote:
> >
> > Anyone try a coffee carafe warmer? Like:
> > http://www.capitalcityrestaurantsupply.com/prodDetail.cfm/1589830
> > Would provide a bit more surface area. I have not found temperature
> > information, but I suspect they keep temperatures below boiling,
> > probably around 190F or so.
> >
> > Rich
> > NU6T
> >
> >
> > On 4/17/2012 6:24 AM, Dale Putnam wrote:
> > >
> > > Hi John,
> > > That's the shape of the one that I use.. and I don't have to space
> > > the board up... so it doesn't over cook, with pennies, or ???
> > > If you don't like that one... let me know, k? Cause the one I have is
> > > plastic... and the hot air gun has over toasted the plastic, in places.
> > >
> > > --... ...-- Dale - WC7S in Wy
> > >
> > > ---
> > > To: AT_Sprint@yahoogroups.com
> > > From: shadle@
> > > Date: Tue, 17 Apr 2012 09:15:55 -0400

> > > Subject: [AT_Sprint] beverage warmer source?
> > >
> > > Hi all,
> > > I was wondering if anyone has a good, reliable beverage warmer they
> > > can recommend. I picked up this device at a Radio Shack sale some time
> > > in the past, but the board doesn't touch the warmer, so the heat is
> > > never transferred.
> > >
> > > http://www.tulsasuperads.com/electronics_For_Sale/C513A274151P5/JOURNEY_S_EDGE_2_0_U
SB_Beverage_Warmer.aspx
> > >
> > > Is there some way I should "modify" the beverage warmer so that it
> > > touches the board, or are there other beverage warmers out there that
> > > are better?
> > >
> > > In anticipation of the MTR kit arriving, I did some solder paste work
> > > with a few other projects that came in the mail recently. I'll never
> > > go back to soldering by hand of SMD parts, when possible. Of course, I
> > > was only using the hot air gun and not a beverage warmer beneath.
> > > Worked fine, but I can imagine using the warmer would decrease the
> > > time a bit.
> > >
> > > Thanks.
> > > -john W4PAH
> > > Madison, WI
> > >
> > >
> >
>

8973. RE: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 18:51:39 UTC
From: Dale Putnam
Topic: 8766 Message: 8973

Yes, that works too.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
CC: daleputnam@...
From: rehill@...
Date: Sat, 28 Apr 2012 08:31:32 -0700
Subject: Re: [AT_Sprint] beverage warmer source?

Anyone try a coffee carafe warmer? Like:
http://www.capitalcityrestaurantsupply.com/prodDetail.cfm/1589830

Would provide a bit more surface area. I have not found temperature
information, but I suspect they keep temperatures below boiling,
probably around 190F or so.

Rich
NU6T

On 4/17/2012 6:24 AM, Dale Putnam wrote:

Hi John,

That's the shape of the one that I use.. and I don't
have to space the board up... so it doesn't over cook,
with pennies, or ???

If you don't like that one... let me know, k? Cause the
one I have is plastic... and the hot air gun has over
toasted the plastic, in places.

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com

From: shadle@...

Date: Tue, 17 Apr 2012 09:15:55 -0400

Subject: [AT_Sprint] beverage warmer source?

Hi all,

I was wondering if anyone has a good, reliable
beverage warmer they

can recommend. I picked up this device at a Radio
Shack sale some time

in the past, but the board doesn't touch the
warmer, so the heat is

never transferred.

http://www.tulsasuperads.com/electronics_For_Sale/C513A274151P5/JOURNEY_S_EDGE_2_0_USB_Bev
erage_Warmer.aspx

Is there some way I should "modify" the beverage
warmer so that it

touches the board, or are there other beverage
warmers out there that

are better?

In anticipation of the MTR kit arriving, I did
some solder paste work

with a few other projects that came in the mail
recently. I'll never

go back to soldering by hand of SMD parts, when
possible. Of course, I

was only using the hot air gun and not a beverage
warmer beneath.

Worked fine, but I can imagine using the warmer
would decrease the

time a bit.

Thanks.

-john W4PAH

Madison, WI

8974. ATS-4b: confirming which manual to use

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 19:34:51 UTC
From: Owen B. Mehegan
Topic: 8974 Message: 8974

HI gang -

I have an unopened ATS-4b kit, which I purchased from Doug/K9DLP in January. I'm going to get started building it in the next week or so, but I wanted to confirm something Doug mentioned before I do (and before Steve heads out into the wilderness for a few weeks :). Doug said that this kit is from a run made before the final one, and as such I should use the manual included with the CD that came with it, rather than any newer one found on the Yahoo group's files section. I guess later runs of the kit may have included minor changes, so I want to use the manual that goes with my run. This seems logical to me, I just wanted to make sure before I start soldering! Should I refer to the errata document in the files section, dated 11/27/2011, if need be? Or is that also specific to the last run of this kit?

Many thanks in advance!

Owen/KJ6AKQ

--
owen@... (Owen B. Mehegan)
'But I have that within which passes show,
These but the trappings and the suits of woe.'
--William Shakespeare

8975. Re: [AT_Sprint] beverage warmer source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 20:50:09 UTC
From: Rich
Topic: 8766 Message: 8975

Thanks.

Rich
NU6T

On 4/28/2012 11:51 AM, Dale Putnam wrote:
>
> Yes, that works too.
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> CC: daleputnam@...
> From: rehill@...
> Date: Sat, 28 Apr 2012 08:31:32 -0700
> Subject: Re: [AT_Sprint] beverage warmer source?
>
> Anyone try a coffee carafe warmer? Like:
> http://www.capitalcityrestaurantsupply.com/prodDetail.cfm/1589830
> Would provide a bit more surface area. I have not found temperature
> information, but I suspect they keep temperatures below boiling,
> probably around 190F or so.
> Rich
> NU6T
>
> On 4/17/2012 6:24 AM, Dale Putnam wrote:
>
>
> Hi John,
> That's the shape of the one that I use.. and I don't have to
> space the board up... so it doesn't over cook, with pennies, or ???
> If you don't like that one... let me know, k? Cause the one I have
> is plastic... and the hot air gun has over toasted the plastic, in
> places.
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint@yahoogroups.com>
> From: shadle@... <mailto:shadle@...>
> Date: Tue, 17 Apr 2012 09:15:55 -0400
> Subject: [AT_Sprint] beverage warmer source?
>
> Hi all,

> I was wondering if anyone has a good, reliable beverage warmer they
> can recommend. I picked up this device at a Radio Shack sale some time
> in the past, but the board doesn't touch the warmer, so the heat is
> never transferred.
>
> http://www.tulsasuperads.com/electronics_For_Sale/C513A274151P5/JOURNEY_S_EDGE_2_0_USB_B
everage_Warmer.aspx
>
> Is there some way I should "modify" the beverage warmer so that it
> touches the board, or are there other beverage warmers out there that
> are better?
>
> In anticipation of the MTR kit arriving, I did some solder paste work
> with a few other projects that came in the mail recently. I'll never
> go back to soldering by hand of SMD parts, when possible. Of course, I
> was only using the hot air gun and not a beverage warmer beneath.
> Worked fine, but I can imagine using the warmer would decrease the
> time a bit.
>
> Thanks.
> -john W4PAH
> Madison, WI
>
>
>

8976. RE: [AT_Sprint] ATS-4b: confirming which manual to use

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-28 21:07:59 UTC
From: Dale Putnam
Topic: 8974 Message: 8976

Hi Owen, I'd go with the cd, after checking the errata, and using the updated by you, information. Most of the errata doesn't affect things, but if you pay close attention to details and get hung up on everything everywhere has to match, check the errata. That'll catch all that. And in the process, you get more familiar with the manual, and the radio.Win - Win.Have a great build!!

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@...m
From: owen@...
Date: Sat, 28 Apr 2012 12:34:51 -0700
Subject: [AT_Sprint] ATS-4b: confirming which manual to use

HI gang -
I have an unopened ATS-4b kit, which I purchased from Doug/K9DLP in January. I'm going to get started building it in the next week or so, but I wanted to confirm something Doug mentioned before I do (and before Steve heads out into the wilderness for a few weeks :). Doug said that this kit is from a run made before the final one, and as such I should use the manual included with the CD that came with it, rather than any newer one found on the Yahoo group's files section. I guess later runs of the kit may have included minor changes, so I want to use the manual that goes with my run. This seems logical to me, I just wanted to make sure before I start soldering! Should I refer to the errata document in the files section, dated 11/27/2011, if need be? Or is that also specific to the last run of this kit?
Many thanks in advance!
Owen/KJ6AKQ
-- owen@nerdnetworks.org (Owen B. Mehegan) 'But I have that within which passes show, These but the trappings and the suits of woe.' --William Shakespeare

8977. Re: [AT_Sprint] ATS-4b: confirming which manual to use

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-29 03:11:54 UTC
From: Jim Crooke
Topic: 8974 Message: 8977

Sent from my iPad

On Apr 28, 2012, at 4:07 PM, Dale Putnam <daleputnam@hotmail.com> wrote:

> Hi Owen,
> I'd go with the cd, after checking the errata, and using the updated by you, information. Most of the errata doesn't affect things, but if you pay close attention to details and get hung up on
> everything everywhere has to match, check the errata. That'll catch all that.
> And in the process, you get more familiar with the manual, and the radio.
> Win - Win.
> Have a great build!!
>
> --... ...-- Dale - WC7S in Wy
>
> To: AT_Sprint@yahoogroups.com
> From: owen@...
> Date: Sat, 28 Apr 2012 12:34:51 -0700
> Subject: [AT_Sprint] ATS-4b: confirming which manual to use
>
>
> HI gang -
>
> I have an unopened ATS-4b kit, which I purchased from Doug/K9DLP in January. I'm going to get started building it in the next week or so, but I wanted to confirm something Doug mentioned before I do (and before Steve heads out into the wilderness for a few weeks :). Doug said that this kit is from a run made before the final one, and as such I should use the manual included with the CD that came with it, rather than any newer one found on the Yahoo group's files section. I guess later runs of the kit may have included minor changes, so I want to use the manual that goes with my run. This seems logical to me, I just wanted to make sure before I start soldering! Should I refer to the errata document in the files section, dated 11/27/2011, if need be? Or is that also specific to the last run of this kit?
>
> Many thanks in advance!
>
> Owen/KJ6AKQ
>
> --
> owen@... (Owen B. Mehegan)
> 'But I have that within which passes show,
> These but the trappings and the suits of woe.'
> --William Shakespeare
>
>

>

8978. MTR impressions after field use

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-29 05:28:39 UTC
From: kd5kxf
Topic: 8978 Message: 8978

I took MTR sn 089 out for QRPTTF today. I worked a qso with it last night to be sure it worked before I packaged it into the altoids tin. My impressions of this rig are very favorable. I was careful to avoid the rit button after confirming with a dummy load the local message transmission problem. In practice this was not difficult to avoid and the rig worked great. I did not use any messages, I just didn't have time to upgrade the firmware before the contest today. The audio is more than adequate, I used some cheap over the ear walkman style headphones instead of earbuds and it still had more than ample audio even with the high winds I was in today. The keyer and basic controls are well thought out, I really like the audio annunciated freq readout too. Anyone who has operated any of the ATS series will be right at home with the quality and the functionality. I have operated for 4 hours off of a 4.2ah lipo cell and the power is still above 12 volts so it is obviously efficient. Since I have had other ATS rigs and the PFR3, the rig felt very much "like home". I will probably do a formal calibration when I take it out of the tin to upgrade the firmware, I merely set the BFO by ear during the test qso last night. I have operated it on both 20 and 40 meters. I am very happy with this rig and would have to rate it extremely high on the bang for the buck scale. Hope to catch one of you MTR guys soon for my first 2x MTR qso.

Mike KD5KXF

8979. RE: [AT_Sprint] MTR impressions after field use

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-29 13:27:54 UTC
From: Jake, ON4YZ
Topic: 8978 Message: 8979

Hi Mike,

Did you have a look at Reverse Beacon Network for your sigs?

73 de Jake - On4YZ

>> I have operated it on both 20 and 40 meters. I am very happy with this
rig.

8980. MTR reflashed.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-29 13:58:23 UTC
From: n1rx
Topic: 8980 Message: 8980

Using the TI Lauchpad, I successfully re-flashed my MTR with the revised firmware this morning. Will re-calibrated later. (The Sun's out, and there are things that need to be done outside...) Thanks Steve.
73,
Bruce, N1RX

8981. Re: MTR impressions after field use

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-29 15:05:52 UTC
From: kd5kxf
Topic: 8978 Message: 8981

No, but I only had one station not come back to me. so I was happy. I just uploaded pics of my field station setup from yesterday.

--- In AT_Sprint@yahoogroups.com, "Jake, ON4YZ" <jacques.matlet@...> wrote:
>
> Hi Mike,
>
> Did you have a look at Reverse Beacon Network for your sigs?
>
> 73 de Jake - On4YZ
>
> >> I have operated it on both 20 and 40 meters. I am very happy with this
> rig.
>

8982. Re: [AT_Sprint] Re: MTR impressions after field use

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-29 17:57:32 UTC
From: Scott Zastoupil
Topic: 8978 Message: 8982

I'd like to see a closeup photo with the lid open of the switchcraft altoids paddle. I have some switchcraft waffers here that are slated for the MTR rig and looking for ideas. Thanks.

Scott, KB0KFX

From: kd5kxf <kd5kxf@...>
To: AT_Sprint@yahoogroups.com
Sent: Sunday, April 29, 2012 10:05 AM
Subject: [AT_Sprint] Re: MTR impressions after field use

No, but I only had one station not come back to me. so I was happy. I just uploaded pics of my field station setup from yesterday.

--- In AT_Sprint@yahoogroups.com, "Jake, ON4YZ" <jacques.matlet@...> wrote:
>
> Hi Mike,
>
> Did you have a look at Reverse Beacon Network for your sigs?
>
> 73 de Jake - On4YZ
>
> >> I have operated it on both 20 and 40 meters. I am very happy with this
> rig.
>

8983. Is K5WTA part of the group?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-29 18:51:59 UTC
From: Milton A Riutort
Topic: 8983 Message: 8983

Hi

I was testing a new home brew vertical near 15 GMT here and after few resonant test the antenna was showing a good 20m band SWR and I pickup the ATS4 for a quick test. Two station was logged, W4P and K5WTA, both in FL with good signals reports.

Jack, if you are part of the group email me to let you know exactly my working condition here.

Anyway, the antenna is one element trap save from a big (apparently a KLM fabrication) ship to shore multiband yagi that was disassemble into pieces for sell as aluminum material. Only this band trap piece survive. We just mount it into a aluminum tube and start seeing in what frequency does it resonate. At this moment it is working on 14,200Khz and 10,400Khz. This make me very happy, because I think we can adjust it down what is needed, to make it resonant on 30m band with a little capaciting hat. If this works, I can use it as my perfect MTR match antenna here at home. The MTR is assembled for 20m and 30m bands.

Will see..!

Best 73,
Milton
NP4KT

Sent from my iPhone

8984. Re: [AT_Sprint] MTR reflashed.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-29 19:46:36 UTC
From: Steven Weber
Topic: 8980 Message: 8984

> Using the TI Lauchpad, I successfully re-flashed my MTR with the revised
> firmware this morning. Will re-calibrated later. (The Sun's out, and there
> are things that need to be done outside...) Thanks Steve.
> 73,
> Bruce, N1RX

Actually, if you've already calibrated, you don't have to do it again. The F2xxx series chips have four, 64 byte memory blocks instead of the two 128 information memories the earlier F1xxx series used in previous ATS flavors.

The programmer will errase three of these information memory blocks (although it is possible to set the options so that none are errased). The 4th block contains oscillator calibration data for the MSP's DCO, so it is left intact. I used this same information block to store the DDS calibration data in, leaving the other three for the keyer memories.

This change in how the information memory works and modifying the routine for that change is what lead to the bug causing the local messages to be transmitted. So, for those of you who were wondering if this bug affected earlier ATS rigs, no it doesn't.

Steve, KD1JV

8985. Re: MTR reflashed.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-29 20:12:51 UTC
From: n1rx
Topic: 8980 Message: 8985

Thanks, Steve. I noticed that the DDS was still calibrated when I went back through the routine. At that point, I thought it prudent to just continue with the "recal" just to make sure the DDS cal and BFO offset were re-stored properly.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Actually, if you've already calibrated, you don't have to do it again. The
> F2xxx series chips have four, 64 byte memory blocks instead of the two 128
> information memories the earlier F1xxx series used in previous ATS flavors.
>
> The programmer will errase three of these information memory blocks
> (although it is possible to set the options so that none are errased). The
> 4th block contains oscillator calibration data for the MSP's DCO, so it is
> left intact. I used this same information block to store the DDS calibration
> data in, leaving the other three for the keyer memories.
>
> This change in how the information memory works and modifying the routine
> for that change is what lead to the bug causing the local messages to be
> transmitted. So, for those of you who were wondering if this bug affected
> earlier ATS rigs, no it doesn't.
>
> Steve, KD1JV
>

8986. Re: MTR impressions after field use

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-29 19:37:16 UTC
From: kd5kxf
Topic: 8978 Message: 8986

I added some photos to the KD5KXF folder in photos. I did a couple of things to this thing to make it work... namely taking another set of contacts from another identical switch and taking the drift pin out and removing the toggle arm so I had a through mount hole for the wires. I did not have the nut so I soldered the switch frame and threads to the altoids box. I am going to build a couple of other variations and will post the results. I am absolutely please with how it operates though. Pretty nice score for .99 each.

--- In AT_Sprint@yahoogroups.com, Scott Zastoupil <szastoupil@...> wrote:
>
> I'd like to see a closeup photo with the lid open of the switchcraft altoids paddle. Â I have some switchcraft waffers here that are slated for the MTR rig and looking for ideas. Â Thanks.
>
> Scott, KB0KFX
>
>
> _____
> From: kd5kxf <kd5kxf@...>
> To: AT_Sprint@yahoogroups.com
> Sent: Sunday, April 29, 2012 10:05 AM
> Subject: [AT_Sprint] Re: MTR impressions after field use
>
>
> Â
> No, but I only had one station not come back to me. so I was happy. I just uploaded pics of my field station setup from yesterday.
>
> --- In AT_Sprint@yahoogroups.com, "Jake, ON4YZ" <jacques.matlet@> wrote:
> >
> > Hi Mike,
> >
> > Did you have a look at Reverse Beacon Network for your sigs?
> >
> > 73 de Jake - On4YZ
> >
> > >> I have operated it on both 20 and 40 meters. I am very happy with this
> > rig.
> >
>

8987. Re: [AT_Sprint] MTR - BUG FIX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-29 22:02:13 UTC
From: bf bahler
Topic: 8911 Message: 8987

Hi Steve
Serial #045 is up and running. Generating appoximately 4 watts with 10 volts on both 20 and 40(Elecraft W1 wattmeter). Seems to be performing properly. What a wonderful little kit/rig. I will return the board to you by UPS in the AM and will include return postage. Thank you very much for this service of reflashing the chip and using some electronic "bug spray". Hope the Hamilton is still running.
73's Alan, W2JHX

From: John Hestenes <jhestenes@...>
To: AT_Sprint@yahoogroups.com
Sent: Saturday, April 28, 2012 2:36 AM
Subject: Re: [AT_Sprint] MTR - BUG FIX

Steve:
I will send my chip Saturday.
John KJ6CVB

On Apr 26, 2012, at 8:12 AM, Steven Weber wrote:

>This BUG is serious enough I feel it must be addressed. We can't be
>accidently transmitting the local messages.
>
>One of the problems is it has to be done before May 15, when I leave for
>Dayton, which doesn't leave much time. After FDIM, I'm heading for the AT to
>hike for a couple of weeks. Then at the end of June, I'll be heading out to
>Montana for 2 months on the CDT (Continental Divide Trail). I'll be home for
>a few weeks in early June, but most that time will be spent getting ready to
>go west.
>
>I will go ahead and buy a bunch of new processors to send out.
>
>1. All the DX orders will get one for sure, because of the expense of
>sending the original back. These are thin enough that they can go into a
>standard letter envelope, so the postage is reasonable and avoids customs
>and those hassles.
>
>2. If you already built the board and don't want to re-flash the chip
>yourself, put the board in a small box and mail it to me. I'll re-flash the
>chip and then do the calibration and alignment of the board for you, along
>with any minor repairs if needed to get it going and pay return postage.
>What a deal!
>
>3. Anyone who hasn't built the board and willing to pull the chip out of the
>package and send it to me to re-flash, that would be a big help. Thankfully,
>I packaged the processor seperately from the rest of the semiconductors so

>it's easy to find and get to. You can snip the end of the pink bag and slip
>the chip out. The processor is of course the long skinny part behind the
>piece of white card. The other chip there is the DDS chip.
>
>When mailing the processor, first fold a small piece of tin foil around it
>for static protection, then tape it to some thin cardboard, like from a
>cerial box and have a piece on both sides of the chip. This will help keep
>the leads from being damaged by the postal machines. You put it in an letter
>envelope and mail it for 45 cents.
>
>4. Everyone else I'll send a new processor.
>
>I'll hold off ordering new chips until Monday. In the mean time, let me know
>if your planing to send me your board or chip, so I'll know how many I need
>to order on Monday.
>
>Steve
>
>

8988. Re: Pony Express is slow...!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 06:03:43 UTC
From: Dave Packard
Topic: 8911 Message: 8988

Dale built my -4. What a beauty. Thank you, Dale!

-Dave, K1YHR.

8989. Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 10:07:50 UTC
From: Yannick DEVOS (XV4Y)
Topic: 8989 Message: 8989

Hi,

I am wondering what paddle do you use when on a trail?
I am rather new to CW and my only paddle is a Black Widow from W5JH.
I am really pleased with it. It is not perfect but fit me well.
I'd like to buy the baby black widow Jerry made for the PFR or KX1 but Jerry no longer sells paddles kits...

I am looking at the K8RA P2Jr and AME PortaPaddle but the truth is that they are over my current budget.
I am ready to wait a little bit more and buy a good paddle but I would like to have advises from experimented QRPers...

I am sending at 15-20wpm and have a light touch.
That said when going portable I can make effort to send slower even I find it boring...

Thanks for your help.
73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

8990. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 10:18:34 UTC
From: Yannick DEVOS (XV4Y)
Topic: 8989 Message: 8990

I forgot the Dirty Cheap Paddle from AME. This one fits my budget better.
What do you think about it? Do someone owns one along a W5JH Black Widow ?

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 30 avr. 2012 à 17:07, Yannick DEVOS (XV4Y) a écrit :

> Hi,
>
> I am wondering what paddle do you use when on a trail?
> I am rather new to CW and my only paddle is a Black Widow from W5JH.
> I am really pleased with it. It is not perfect but fit me well.
> I'd like to buy the baby black widow Jerry made for the PFR or KX1 but Jerry no longer sells paddles kits...
>
> I am looking at the K8RA P2Jr and AME PortaPaddle but the truth is that they are over my current budget.
> I am ready to wait a little bit more and buy a good paddle but I would like to have advises from experimented QRPers...
>
> I am sending at 15-20wpm and have a light touch.
> That said when going portable I can make effort to send slower even I find it boring...
>
> Thanks for your help.
> 73,
> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
>
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> Yahoo! Groups Links
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8991. RE: [AT_Sprint] Re: Pony Express is slow...!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 12:17:18 UTC
From: Dale Putnam
Topic: 8911 Message: 8991

Thank you Gil and Dave, Steve gets the credit for designing and kitting such a great radio. I get to make a lot of friends, and have fun too.
Oh, and stay tuned, because in a couple months,... there's going to be an on the air affair, that highlights Steve's AT radios. More to come, as the details all get worked out... but stay tuned,it'll be a blast. Thank you, good friends,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@...m
From: dpackard@...
Date: Mon, 30 Apr 2012 02:03:43 -0400
Subject: [AT_Sprint] Re: Pony Express is slow...!!!

Dale built my -4. What a beauty. Thank you, Dale!

-Dave, K1YHR.

8992. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 13:07:16 UTC
From: Hank Greeb
Topic: 8989 Message: 8992

You might consider the Te-Ne-Ke from the North Ottawa (Michigan) ARC.
The unit is often mounted on a heavy base for use in the home shack, but
is easily removed to use with a leg strap when out in the field.

See http://w8cso.org/index.php?page=teneke for details and a link to a
brochure. Note you may pay several ways, including PayPal.

Reviews on e-ham may be found at http://www.eham.net/reviews/detail/527

72/73 de n8xx Hg

p.s. I'm not a member of NOARC, have no financial connection with the
group, but I've seen the key in action, it's seems versatile and useful

On 4/30/2012 6:07 AM, Yannick DEVOS (XV4Y) wrote:
> Hi,
>
> I am wondering what paddle do you use when on a trail?
> I am rather new to CW and my only paddle is a Black Widow from W5JH.
> I am really pleased with it. It is not perfect but fit me well.
> I'd like to buy the baby black widow Jerry made for the PFR or KX1 but Jerry no longer
sells paddles kits...
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> I am looking at the K8RA P2Jr and AME PortaPaddle but the truth is that they are over my
current budget.
> I am ready to wait a little bit more and buy a good paddle but I would like to have
advises from experimented QRPers...
>
> I am sending at 15-20wpm and have a light touch.
> That said when going portable I can make effort to send slower even I find it boring...
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> Thanks for your help.
> 73,
> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
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> Yahoo! Groups Links
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8993. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 11:53:56 UTC
From: kd5kxf@classicnet.net
Topic: 8989 Message: 8993

My experience has been that no one makes a small enough, light enough paddle if you are taking it on the trail. At 15 to 20 wpm you are right where I am. I usually run around 17wpm to 20wpm and it doesn't take Bengali precision to send those speeds. My first paddle was the Ft Smith Paddle/Keyer kit and the whole thing fit in an altoids can. This was used with rigs with no keyer like my SST or SW+. I then built several single arm paddles using pcb and hardware. My current one is made out of an older SPST switch. You can see it in the photo folder labeled KD5KXF. Total cost was $2.16 so it fit my budget well too and took less than 15 minutes to make.

Mike KD5KXF
---- "Yannick DEVOS (XV4Y)" <yannick.devos@...> wrote:
> I forgot the Dirty Cheap Paddle from AME. This one fits my budget better.
> What do you think about it? Do someone owns one along a W5JH Black Widow ?
>
> 73,
> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
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> Le 30 avr. 2012 à 17:07, Yannick DEVOS (XV4Y) a écrit :
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> > Hi,
> >
> > I am wondering what paddle do you use when on a trail?
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> > I am really pleased with it. It is not perfect but fit me well.
> > I'd like to buy the baby black widow Jerry made for the PFR or KX1 but Jerry no longer sells paddles kits...
> >
> > I am looking at the K8RA P2Jr and AME PortaPaddle but the truth is that they are over my current budget.
> > I am ready to wait a little bit more and buy a good paddle but I would like to have advises from experimented QRPers...
> >
> > I am sending at 15-20wpm and have a light touch.
> > That said when going portable I can make effort to send slower even I find it boring...
> >
> > Thanks for your help.
> > 73,
> > Yan.
> > ---
> > Yannick DEVOS - XV4Y
> > http://xv4y.radioclub.asia/

> > http://varc.radioclub.asia/
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8994. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 14:59:54 UTC
From: Joseph Trombino, Jr
Topic: 8989 Message: 8994

How about the Palm paddle...about the smallest and lightest I have ever used....really good "feel" to it too.

73, Joe W2KJ
I QRP, therefore I am

> My experience has been that no one makes a small enough, light enough paddle if you are taking it on the trail. At 15 to 20 wpm you are right where I am. I usually run around 17wpm to 20wpm and it doesn't take Bengali precision to send those speeds. My first paddle was the Ft Smith Paddle/Keyer kit and the whole thing fit in an altoids can. This was used with rigs with no keyer like my SST or SW+. I then built several single arm paddles using pcb and hardware. My current one is made out of an older SPST switch. You can see it in the photo folder labeled KD5KXF. Total cost was $2.16 so it fit my budget well too and took less than 15 minutes to make.

8995. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 15:35:04 UTC
From: Tom Moll
Topic: 8989 Message: 8995

Another option is the Whiterook Products MK-44.
It is small, weighs virtually nothing, works amazingly well, and is quite durable - all in spite of being constructed of plastic and simple components.
Tom N0BS

On Mon, Apr 30, 2012 at 2:59 PM, Joseph Trombino, Jr
<jotrom@...>wrote:

> **
>
>
>
> How about the Palm paddle...about the smallest and lightest I have ever
> used....really good "feel" to it too.
>
> 73, Joe W2KJ
> I QRP, therefore I am
>
>
> > My experience has been that no one makes a small enough, light enough
> paddle if you are taking it on the trail. At 15 to 20 wpm you are right
> where I am. I usually run around 17wpm to 20wpm and it doesn't take Bengali
> precision to send those speeds. My first paddle was the Ft Smith
> Paddle/Keyer kit and the whole thing fit in an altoids can. This was used
> with rigs with no keyer like my SST or SW+. I then built several single arm
> paddles using pcb and hardware. My current one is made out of an older SPST
> switch. You can see it in the photo folder labeled KD5KXF. Total cost was
> $2.16 so it fit my budget well too and took less than 15 minutes to make.
>
>
>

8996. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 16:27:14 UTC
From: kd5kxf@classicnet.net
Topic: 8989 Message: 8996

Nice paddle... if it is the one I am thinking of though, isn't it mag mount? I used a friends with a K2 and it wouldn't mount to the K2 because the case was aluminum. Worked like stink stuck to the tailgate of the truck though.

Someone else mentioned the Whiterook. I haven't tried one so can't comment.

I have had the tiny tenekey in the 35mm canister and it is great. Wish they still made it. I had the other one that is back in production and it is an amazingly good feeling key. I could run that one 25wpm+ with no problems. It however did not respond well to being thrown in the backpack and it ultimately died in the line of duty.

But for something that I throw in a backback, I am looking for something light, durable, and replaceable. I forgot the Hauff portapaddle... that thing is nice and under $50.
I used a paperclip key for a while too...

My favorite is one I made with PVC and a piece of double sided and some 440 screws. That ugly brute will probably never die and darn sure no one is going to steel the thing but it works well. You just have to put something on a round handheld key so you can orient it in the dark or you will grab it upside down and send dots instead of dahs etc. The single lever paddle goes inside the pvc and you put screws in as contacts and wire the paddle common and the screws for dits and dahs. You can drill
a whole to adjust the action of the lever.

And these things with a a light rig and other light accessories means it can fit in tiny spaces and gets to go numerous places. My hunting trips usually involve QRO quantities of hunting gear so whatever I take has to be small and able to survive some rough treatment from time to time.

Mike KD5KXF
---- "Joseph Trombino wrote:
>
> How about the Palm paddle...about the smallest and lightest I have ever used....really good "feel" to it too.
>
> 73, Joe W2KJ
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> > My experience has been that no one makes a small enough, light enough paddle if you are taking it on the trail. At 15 to 20 wpm you are right where I am. I usually run around 17wpm to 20wpm and it doesn't take Bengali precision to send those speeds. My first paddle was the Ft Smith Paddle/Keyer kit and the whole thing fit in an altoids can. This was used with rigs with no keyer like my SST or SW+. I then built several single arm paddles using pcb and hardware. My current one is made out of an older SPST switch. You can see it in the photo folder labeled KD5KXF. Total cost was $2.16 so it fit my budget well too and took less than 15 minutes to make.
>

8997. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 16:57:41 UTC
From: Barry N1EU
Topic: 8989 Message: 8997

On Mon, Apr 30, 2012 at 4:27 PM, <kd5kxf@...> wrote:

> **
>
>
> Nice paddle... if it is the one I am thinking of though, isn't it mag
> mount? I used a friends with a K2 and it wouldn't mount to the K2 because
> the case was aluminum. Worked like stink stuck to the tailgate of the truck
> though.
>
> The magnetic mount is an option. All you would have to do with an Al case
is put a small piece of magnetic tape on the case and then the magnetic
mount would stick right to it.

Barry N1EU

8998. Tuners to go

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 17:46:51 UTC
From: kd5kxf
Topic: 8998 Message: 8998

Since someone asked about keys, I would like to hear from other ATS owners about what antenna and tuner solutions you use. I seem to have built a small collection of these things. I used the QRPKITS SOTA tuner for QRPTTF and was pleased with the performance and ease of use.

What are you using and why? These kind of conversations are always thought provoking to me. Currently I favor the End Fed Half Wave if I am planning on a single band or two band effort. I like the ease of installation, the options of putting it up as an inverted v, sloper, L, or vertical, and the ability to package the tuner in a small format.

I used to use a 20 meter half wave inverted V fed with 300 ohm tv twinlead and a BLT.

Mike KD5KXF

8999. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 18:53:04 UTC
From: Scott Cowling
Topic: 8989 Message: 8999
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Yan,

I have used Whiterook, HamKey, Bencher, Kent,
Vibroplex, AME, Begali, N0SA roughly in order of
my preference. (I am sure that there are others...)

I have also used homebrew paddles made from lever
switches, hacksaw blades, and PCB material, as
well as touch switch paddles. None of these were ever more than toys.

Some of the old Heathkit keyers with built-in
paddles are OK, some not. (The Heathkit HD-1410
takes the award for the absolute *worst* paddle I
have ever used, even worse than my Vibroplex
Champion bug converted to a paddle).

Anyway, what counts to me is "when I sit down at
the home station, which paddle do I use?" It is
the AME. Which do I use with the FT-817? The AME.
Which do I use with the ATS-4B? The AME. There
is a pattern there somewhere. :-)

The high end paddles look very nice, key very
nice and are a joy to use. But you would never
take them out into the field. And the "solid"
feel of the AME paddles is exceptional, rivalling
the high end paddles (I'm sure I'll get some
arguments here :-). And they are almost
indestructible. And you can get one that weighs only 2.5 oz. (about 70g?)

My advice would be to save for the AME - you will
not be sorry. You will enjoy it every time you sit down to operate your rig.

There are as many opinions as there are paddles - mine is just one.

73,
Scotty WA2DFI

At 17:07 2012-04-30 +0700, Yannick DEVOS (XV4Y) wrote:
>
>
>Hi,
>
>I am wondering what paddle do you use when on a trail?
>I am rather new to CW and my only paddle is a Black Widow from W5JH.
>I am really pleased with it. It is not perfect but fit me well.

>I'd like to buy the baby black widow Jerry made
>for the PFR or KX1 but Jerry no longer sells paddles kits...
>
>I am looking at the K8RA P2Jr and AME
>PortaPaddle but the truth is that they are over my current budget.
>I am ready to wait a little bit more and buy a
>good paddle but I would like to have advises from experimented QRPers...
>
>I am sending at 15-20wpm and have a light touch.
>That said when going portable I can make effort
>to send slower even I find it boring...
>
>Thanks for your help.
>73,
>Yan.
>---
>Yannick DEVOS - XV4Y
><http://xv4y.radioclub.asia/>http://xv4y.radioclub.asia/
>http://varc.radioclub.asia/
>
>

9000. Re: [AT_Sprint] Tuners to go

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 18:56:04 UTC
From: Tom Moll
Topic: 8998 Message: 9000

Mike,
I am also a big fan of the EFHW for all the reasons you mention, plus it just seems to work so well. I use the Hendrichs SLT+ tuner - cuz that's what I've got :-) and it works - and Steve designed it. I do find that it exhibits some hand capacitance reaction when tunung, but not a problem. The resistive style bridge in it is a good match with the MTR, as Steve suggests where you may have a severe mismatch until tuned up.
I may add one of the BLT's to the kit just to add some versatility and to experiment with other arrangements, but for portable, I think that simple = best.
73, Tom N0BS

On Mon, Apr 30, 2012 at 5:46 PM, kd5kxf <kd5kxf@...> wrote:

> **
>
>
> Since someone asked about keys, I would like to hear from other ATS owners
> about what antenna and tuner solutions you use. I seem to have built a
> small collection of these things. I used the QRPKITS SOTA tuner for QRPTTF
> and was pleased with the performance and ease of use.
>
> What are you using and why? These kind of conversations are always thought
> provoking to me. Currently I favor the End Fed Half Wave if I am planning
> on a single band or two band effort. I like the ease of installation, the
> options of putting it up as an inverted v, sloper, L, or vertical, and the
> ability to package the tuner in a small format.
>
> I used to use a 20 meter half wave inverted V fed with 300 ohm tv twinlead
> and a BLT.
>
> Mike KD5KXF
>
>
>

9001. WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 19:44:06 UTC
From: Dale Putnam
Topic: 9001 Message: 9001

http://ats-sprint.blogspot.com/Check this out... !!! On the Saturday evening... this coming July 21 US time,.... but 0000z July 22... zulu time, oh man... oh man... this is going to be so much fun!!We can all get together... and have a sprint. Gather up call signs of many of the folks that have similar radios... of the same family, The ATS family. oh... and you had better watch the exchanges too... because there are some of us that have more than one of these marvelous fantastically fine, andawesomely spectacular...(huh?... oh.. ok).. simply spectac.... (huh?.... oh... ok).... they are daggone good. (There happy now?) So the exchange from the same station could be a 1, 2, 3, 4. Just not at the same time... maybe alternating. All kidding aside, tell your friends, tell your neighbors, and anyone else... and make plans now... Steve KD1JV may be able to get on with us too.. check the rules... there is a bonus for that too. See you in the ATS-SPRINT!! But don't bring your "BIG" rig... that don't don't hunt here!!!! Have a great day!!

--... ..---
Dale - WC7S in Wy

9002. 17 M mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 20:47:41 UTC
From: kk7ef
Topic: 9002 Message: 9002

Steve or others...
I am finally getting to finish constructing my ATS4 and was going to replace the R38 w/ the 1k resistor for the switching circuit (as in the instructions). If I follow the ideology of putting the 15M parts (low pass filter caps and 2nd harmonic traps, etc.) in the 15M slots and then populate, 17M, 20M and so on; shouldn't I leave the 3.9k resistor in the R38 and put the 1k for 17M in R-39 and populate the 20M resistor in R40 and so on? As always scrounging for time.....Tim

9003. Re: [AT_Sprint] WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 21:11:33 UTC
From: WA0ITP
Topic: 9001 Message: 9003

Great event Dale,

Thank you for setting it up.

I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@...m
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: Dale Putnam
To: AT Sprint
Sent: Monday, April 30, 2012 2:44 PM
Subject: [AT_Sprint] WHAAAHOOOO!!!!!

http://ats-sprint.blogspot.com/
Check this out... !!!

On the Saturday evening... this coming July 21 US time,.... but 0000z July 22... zulu time, oh man... oh man... this is going to be so much fun!!
We can all get together... and have a sprint. Gather up call signs of many of the folks that have similar radios... of the same family, The ATS family.

oh... and you had better watch the exchanges too... because there are some of us that have more than one of these marvelous fantastically fine, and
awesomely spectacular...(huh?... oh.. ok).. simply spectac.... (huh?.... oh... ok).... they are daggone good. (There happy now?)

So the exchange from the same station could be a 1, 2, 3, 4. Just not at the same time... maybe alternating.

All kidding aside, tell your friends, tell your neighbors, and anyone else... and make plans now...
Steve KD1JV may be able to get on with us too.. check the rules... there is a bonus for that too.

See you in the ATS-SPRINT!!

But don't bring your "BIG" rig... that don't don't hunt here!!!!

Have a great day!!

--... ..--- Dale - WC7S in Wy

9004. Re: [AT_Sprint] Tuners to go

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 21:18:31 UTC
From: cloud runner
Topic: 8998 Message: 9004

I use the KI6J EFHW tuner. It doesn't exhibit hand capacitance. Also, it uses a better transformer ratio, a true efhw whereas the Hendricks version is for something else. No "counterpoise" is necessary.

However, neither one will tune 15 mtrs EFHW as designed. I am able to make the KI6J work 15-40 by using only the smaller section of the variable capacitor. The problem is too much stray capacitance to tune 15 as is.

73, Fred - KT5X

aka WS0TA

----- Original Message -----
From: Tom Moll
To: AT_Sprint@yahoogroups.com
Sent: Monday, April 30, 2012 12:56 PM
Subject: Re: [AT_Sprint] Tuners to go

Mike,

I am also a big fan of the EFHW for all the reasons you mention, plus it just seems to work so well. I use the Hendrichs SLT+ tuner - cuz that's what I've got :-) and it works - and Steve designed it. I do find that it exhibits some hand capacitance reaction when tunung, but not a problem.
The resistive style bridge in it is a good match with the MTR, as Steve suggests where you may have a severe mismatch until tuned up.
I may add one of the BLT's to the kit just to add some versatility and to experiment with other arrangements, but for portable, I think that simple = best.
73, Tom N0BS

On Mon, Apr 30, 2012 at 5:46 PM, kd5kxf <kd5kxf@...> wrote:

Since someone asked about keys, I would like to hear from other ATS owners about what antenna and tuner solutions you use. I seem to have built a small collection of these things. I used the QRPKITS SOTA tuner for QRPTTF and was pleased with the performance and ease of use.

What are you using and why? These kind of conversations are always thought provoking to me. Currently I favor the End Fed Half Wave if I am planning on a single band or two band effort. I like the ease of installation, the options of putting it up as an inverted v, sloper, L, or vertical, and the ability to package the tuner in a small format.

I used to use a 20 meter half wave inverted V fed with 300 ohm tv twinlead and a BLT.

Mike KD5KXF

9005. Re: [AT_Sprint] 17 M mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 21:42:12 UTC
From: Steven Weber
Topic: 9002 Message: 9005

You put the 1K resistor where ever the 17M band will end up and the approperate resistor for each band in the slot where that band goes.

Most people go either 80/40/30/20/17 or 40/30/20/17/15

In any event, the highest frequency band has to go in the 15 meter slot (right most position), be that 15 or 17 then deceding order to the left.

Steve

> Steve or others...
> I am finally getting to finish constructing my ATS4 and was going to
> replace the R38 w/ the 1k resistor for the switching circuit (as in the
> instructions). If I follow the ideology of putting the 15M parts (low pass
> filter caps and 2nd harmonic traps, etc.) in the 15M slots and then
> populate, 17M, 20M and so on; shouldn't I leave the 3.9k resistor in the
> R38 and put the 1k for 17M in R-39 and populate the 20M resistor in R40
> and so on? As always scrounging for time.....Tim
>

9006. which paddle?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 22:16:18 UTC
From: cloud runner
Topic: 9006 Message: 9006
Attachments: 1 described; binary payloads are missing from this source WARC

Home made, no cost, 8 grams, used reeds from a 40's vintage relay.

Seen here in use on QRPTTF this weekend. Tuner seen is by KI6J, but in a hendricks box. Antenna is a true EFHW, no counterpoise at all, here goes out on a fishing pole about ten feet, then hangs down using a firetower as a reflector. to the northeast.

QTH W5N/PW-022, Barillas Peak firetower, San Miguel County, New Mexico.

Station is pre-wired, LiPO battery is mounted on the back. Attach antenna, stick earbuds in ears, and have at it.

72, Fred - KT5X

AKA WS0T

9007. Re: [AT_Sprint] WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 23:26:41 UTC
From: Johnny Matlock
Topic: 9001 Message: 9007

GOOD Ole fashined radio FUN!!
tnx Dale I will try to be there!!
72 Johnny AC0BQ

On Mon, Apr 30, 2012 at 2:44 PM, Dale Putnam <daleputnam@...> wrote:

> **
>
>
> http://ats-sprint.blogspot.com/
> Check this out... !!!
>
> On the Saturday evening... this coming July 21 US time,.... but 0000z July
> 22... zulu time, oh man... oh man... this is going to be so much fun!!
> We can all get together... and have a sprint. Gather up call signs of many
> of the folks that have similar radios... of the same family, The ATS family.
>
> oh... and you had better watch the exchanges too... because there are some
> of us that have more than one of these marvelous fantastically fine, and
> awesomely spectacular...(huh?... oh.. ok).. simply spectac.... (huh?....
> oh... ok).... they are daggone good. (There happy now?)
>
> So the exchange from the same station could be a 1, 2, 3, 4. Just not at
> the same time... maybe alternating.
>
> All kidding aside, tell your friends, tell your neighbors, and anyone
> else... and make plans now...
> Steve KD1JV may be able to get on with us too.. check the rules... there
> is a bonus for that too.
>
> See you in the ATS-SPRINT!!
>
> But don't bring your "BIG" rig... that don't don't hunt here!!!!
>
> Have a great day!!
>
>
>
> --... ..--- Dale - WC7S in Wy
>
>
>

9008. Re: [AT_Sprint] which paddle?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-04-30 23:29:12 UTC
From: Johnny Matlock
Topic: 9006 Message: 9008
Attachments: 1 described; binary payloads are missing from this source WARC

Nice Fred!!!
The only thing missing as far as I can see is a little bit of duct tape!!!
Nice setup!
72
Johnny AC0BQ

On Mon, Apr 30, 2012 at 5:16 PM, cloud runner <just.one.hill@...>wrote:

> **
>
>
> **
> Home made, no cost, 8 grams, used reeds from a 40's vintage relay.
>
> Seen here in use on QRPTTF this weekend. Tuner seen is by KI6J, but in a
> hendricks box. Antenna is a true EFHW, no counterpoise at all, here goes
> out on a fishing pole about ten feet, then hangs down using a firetower as
> a reflector. to the northeast.
>
> QTH W5N/PW-022, Barillas Peak firetower, San Miguel County, New Mexico.
>
> Station is pre-wired, LiPO battery is mounted on the back. Attach
> antenna, stick earbuds in ears, and have at it.
>
> 72, Fred - KT5X
>
> AKA WS0T
>
>
>
>

9009. Re: [AT_Sprint] Tuners to go

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 00:32:51 UTC
From: Tom Moll
Topic: 8998 Message: 9009

"the Hendrichs version is for something else" ??? Can you explain what you mean by this comment please?
What makes it a "true" EFHW?
Hendrichs offers 2 different tuners aimed at EFHW, the SOTA tuner and the SLT+ tuner.
Which one are you referring to?
Were you using this setup on W5/SE011 when we worked the other day? QSB was a bit deep on 20m but you had a good signal into VA.
It varied all the way from S1 to S9 during the short while I heard you.
Thanks and 73,
Tom N0BS

On Mon, Apr 30, 2012 at 9:18 PM, cloud runner <just.one.hill@...>wrote:

> **
>
>
> **
> I use the KI6J EFHW tuner. It doesn't exhibit hand capacitance. Also, it
> uses a better transformer ratio, a true efhw whereas the Hendricks version
> is for something else. No "counterpoise" is necessary.
>
> However, neither one will tune 15 mtrs EFHW as designed. I am able to
> make the KI6J work 15-40 by using only the smaller section of the variable
> capacitor. The problem is too much stray capacitance to tune 15 as is.
>
> 73, Fred - KT5X
>
> aka WS0TA
>
>
> ----- Original Message -----
> *From:* Tom Moll <tmoll150@...>
> *To:* AT_Sprint@yahoogroups.com
> *Sent:* Monday, April 30, 2012 12:56 PM
> *Subject:* Re: [AT_Sprint] Tuners to go
>
>
>
> Mike,
> I am also a big fan of the EFHW for all the reasons you mention, plus it
> just seems to work so well. I use the Hendrichs SLT+ tuner - cuz that's
> what I've got :-) and it works - and Steve designed it. I do find that it
> exhibits some hand capacitance reaction when tunung, but not a problem.
> The resistive style bridge in it is a good match with the MTR, as Steve

> suggests where you may have a severe mismatch until tuned up.
> I may add one of the BLT's to the kit just to add some versatility and to
> experiment with other arrangements, but for portable, I think that simple =
> best.
> 73, Tom N0BS
>
>
> On Mon, Apr 30, 2012 at 5:46 PM, kd5kxf <kd5kxf@...> wrote:
>
>> **
>>
>>
>> Since someone asked about keys, I would like to hear from other ATS
>> owners about what antenna and tuner solutions you use. I seem to have built
>> a small collection of these things. I used the QRPKITS SOTA tuner for
>> QRPTTF and was pleased with the performance and ease of use.
>>
>> What are you using and why? These kind of conversations are always
>> thought provoking to me. Currently I favor the End Fed Half Wave if I am
>> planning on a single band or two band effort. I like the ease of
>> installation, the options of putting it up as an inverted v, sloper, L, or
>> vertical, and the ability to package the tuner in a small format.
>>
>> I used to use a 20 meter half wave inverted V fed with 300 ohm tv
>> twinlead and a BLT.
>>
>> Mike KD5KXF
>>
>>
>
>

9010. RE: [AT_Sprint] WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 01:10:05 UTC
From: Dale Putnam
Topic: 9001 Message: 9010

OH GOOD, Johnny, I'm counting on you.. we'll have some fun with this... It's got to be a blast!

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: jomatlock@...
Date: Mon, 30 Apr 2012 18:26:41 -0500
Subject: Re: [AT_Sprint] WHAAAHOOOO!!!!!

GOOD Ole fashined radio FUN!!
tnx Dale I will try to be there!!
72 Johnny AC0BQ

On Mon, Apr 30, 2012 at 2:44 PM, Dale Putnam <daleputnam@...> wrote:

http://ats-sprint.blogspot.com/
Check this out... !!!

On the Saturday evening... this coming July 21 US time,.... but 0000z July 22... zulu time, oh man... oh man... this is going to be so much fun!!

We can all get together... and have a sprint. Gather up call signs of many of the folks that have similar radios... of the same family, The ATS family.

oh... and you had better watch the exchanges too... because there are some of us that have more than one of these marvelous fantastically fine, and

awesomely spectacular...(huh?... oh.. ok).. simply spectac.... (huh?.... oh... ok).... they are daggone good. (There happy now?)

So the exchange from the same station could be a 1, 2, 3, 4. Just not at the same time... maybe alternating.

All kidding aside, tell your friends, tell your neighbors, and anyone else... and make plans now...
Steve KD1JV may be able to get on with us too.. check the rules... there is a bonus for that too.

See you in the ATS-SPRINT!!

But don't bring your "BIG" rig... that don't don't hunt here!!!!

Have a great day!!

--... ..---
Dale - WC7S in Wy

9011. Re: [AT_Sprint] Tuners to go

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 01:06:38 UTC
From: cloud runner
Topic: 8998 Message: 9011
Attachments: 1 described; binary payloads are missing from this source WARC

I am referring to the SOTA tuner. in the notes the suggested wire length is not a half wave. a long radial is also suggested. It is referred to as a counterpoise, but it is RF hot so it's a radial, an antenna laying on the ground. The turns ratio does not convert the approximate 3,000 ohm impedance of an end-fed halfwave to 50 ohms which I imagine is why the suggested wire length is not a halfwave.

Stu uses a different turns ratio in the transformer to reach (I think) a 60:1 transformation. My wire is 33 ft 10 inches long made of 22 gauge teflon wire. I don't use an end insulator, QRP. I use a nail knot made with monofilament to attach a short piece of bright red mason's line, followed by fishing line known as backing.

All this rolls up on a Coleman clothesline reel. When there IS a tree (low altitudes like 10,000 foot peaks), I can throw the reel over a limb and pull the wire up. Later, I disconnect the wire from the radio, and reel it all right through the tree winding it up.

Typical deploy takes eight minutes, typical take down about four. When doing SOTA's on Fourteeners, you need to be able to get out of there fast. Clouds form over the peaks in minutes, and turn into lightning storms incredibly fast. I need to be able to pack up fast, and run out of there!

QSB is typical of what happens on a high peak. Some of the signal goes down slope and reflects off the far field bouncing skyward. At far distance then, it randomly combines with the skywave, sometimes adding and sometimes cancelling.

Yes I was using a low EFHW that day. Cerro Grande is a 10,000 ft peak with a barren top, just a grassy peak. A forest fire last summer took out the forest on its flanks, but the peak was barren before that, probably from lightning sparked little fires.

My system is optimized for use as a trail runner. Most of my peaks lack any trees, so I have to carry my support. And I impose upon my system a two pound maximum total weight restriction so that everything is light enough for me to actually run with it, up hill, sometimes to as high as 14,000 feet elevation.

No BS. Neat call sign ;-)

Here is my running radio pack I use either an ATS3B or an ATS4B. The 3 system is about five ounces lighter, but not as convenient for use in something like QRPTTF activity! ...

73 Fred - kt5x

aka WS0TA

"the Hendrichs version is for something else" ??? Can you explain what you mean by this comment please?
What makes it a "true" EFHW?
Hendrichs offers 2 different tuners aimed at EFHW, the SOTA tuner and the SLT+ tuner.
Which one are you referring to?

Were you using this setup on W5/SE011 when we worked the other day? QSB was a bit deep on 20m but you had a good signal into VA.
It varied all the way from S1 to S9 during the short while I heard you.
Thanks and 73,
Tom N0BS

On Mon, Apr 30, 2012 at 9:18 PM, cloud runner <just.one.hill@...> wrote:

I use the KI6J EFHW tuner. It doesn't exhibit hand capacitance. Also, it uses a better transformer ratio, a true efhw whereas the Hendricks version is for something else. No "counterpoise" is necessary.

However, neither one will tune 15 mtrs EFHW as designed. I am able to make the KI6J work 15-40 by using only the smaller section of the variable capacitor. The problem is too much stray capacitance to tune 15 as is.

73, Fred - KT5X

aka WS0TA

.

9012. Re: [AT_Sprint] which paddle?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 00:19:40 UTC
From: Barry N1EU
Topic: 9006 Message: 9012
Attachments: 1 described; binary payloads are missing from this source WARC

Great photographic testimonial for the ATS-4 Fred - I love the pre-wired perf board "desk". Do you ordinarily just set that in your lap in a seated position when you operate (when there's no fire tower) or ??? I'm definitely ergonomically challenged at this point and searching for clues ;-)

73,
Barry N1EU

On Mon, Apr 30, 2012 at 10:16 PM, cloud runner <just.one.hill@gmail.com>wrote:

> **
>
>
> **
> Home made, no cost, 8 grams, used reeds from a 40's vintage relay.
>
> Seen here in use on QRPTTF this weekend. Tuner seen is by KI6J, but in a
> hendricks box. Antenna is a true EFHW, no counterpoise at all, here goes
> out on a fishing pole about ten feet, then hangs down using a firetower as
> a reflector. to the northeast.
>
> QTH W5N/PW-022, Barillas Peak firetower, San Miguel County, New Mexico.
>
> Station is pre-wired, LiPO battery is mounted on the back. Attach
> antenna, stick earbuds in ears, and have at it.
>
> 72, Fred - KT5X
>
> AKA WS0T
>
>
>
>

9013. Re: [AT_Sprint] Tuners to go

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 01:31:42 UTC
From: Tom Moll
Topic: 8998 Message: 9013
Attachments: 1 described; binary payloads are missing from this source WARC

Thanks for the explanation Fred. I have the SLT+ which I am sometimes able to get a match with no counterpoise attached, but I figure it can only help, so I usually attach one.
I don't have the manual or schematic handy, but will do a more detailed comparison when I get a chance to see how the designs differ. I have no experience with the SOTA tuner.
Sounds like you have a nice setup. We don't have those big high peaks out here in VA, but the tops are often exposed and can be subject to sudden thunder and lightning storms in the summer, so you keep your eye on the wx.
Hope to work you S2S with my MTR sometime! I may also get to do some "big hill" activations from central OR in June if time permits while I am there.
73, Tom N0BS

On Tue, May 1, 2012 at 1:06 AM, cloud runner <just.one.hill@...>wrote:

> **
>
>
> **
> I am referring to the SOTA tuner. in the notes the suggested wire length
> is not a half wave. a long radial is also suggested. It is referred to as
> a counterpoise, but it is RF hot so it's a radial, an antenna laying on the
> ground. The turns ratio does not convert the approximate 3,000 ohm
> impedance of an end-fed halfwave to 50 ohms which I imagine is why the
> suggested wire length is not a halfwave.
>
> Stu uses a different turns ratio in the transformer to reach (I think) a
> 60:1 transformation. My wire is 33 ft 10 inches long made of 22 gauge
> teflon wire. I don't use an end insulator, QRP. I use a nail knot made
> with monofilament to attach a short piece of bright red mason's line,
> followed by fishing line known as backing.
>
> All this rolls up on a Coleman clothesline reel. When there IS a tree
> (low altitudes like 10,000 foot peaks), I can throw the reel over a limb
> and pull the wire up. Later, I disconnect the wire from the radio, and
> reel it all right through the tree winding it up.
>
> Typical deploy takes eight minutes, typical take down about four. When
> doing SOTA's on Fourteeners, you need to be able to get out of there fast.
> Clouds form over the peaks in minutes, and turn into lightning storms
> incredibly fast. I need to be able to pack up fast, and run out of there!
>
> QSB is typical of what happens on a high peak. Some of the signal goes
> down slope and reflects off the far field bouncing skyward. At far

> distance then, it randomly combines with the skywave, sometimes adding and
> sometimes cancelling.
>
> Yes I was using a low EFHW that day. Cerro Grande is a 10,000 ft peak
> with a barren top, just a grassy peak. A forest fire last summer took out
> the forest on its flanks, but the peak was barren before that, probably
> from lightning sparked little fires.
>
> My system is optimized for use as a trail runner. Most of my peaks lack
> any trees, so I have to carry my support. And I impose upon my system a
> two pound maximum total weight restriction so that everything is light
> enough for me to actually run with it, up hill, sometimes to as high as
> 14,000 feet elevation.
>
> No BS. Neat call sign ;-)
>
> Here is my running radio pack I use either an ATS3B or an ATS4B. The 3
> system is about five ounces lighter, but not as convenient for use in
> something like QRPTTF activity! ...
>
> 73 Fred - kt5x
>
> aka WS0TA
>
>
>
>
> "the Hendrichs version is for something else" ??? Can you explain what
> you mean by this comment please?
> What makes it a "true" EFHW?
> Hendrichs offers 2 different tuners aimed at EFHW, the SOTA tuner and the
> SLT+ tuner.
> Which one are you referring to?
> Were you using this setup on W5/SE011 when we worked the other day? QSB
> was a bit deep on 20m but you had a good signal into VA.
> It varied all the way from S1 to S9 during the short while I heard you.
> Thanks and 73,
> Tom N0BS
>
>
> On Mon, Apr 30, 2012 at 9:18 PM, cloud runner <just.one.hill@...>wrote:
>
>> **
>>
>>
>> **
>> I use the KI6J EFHW tuner. It doesn't exhibit hand capacitance. Also,
>> it uses a better transformer ratio, a true efhw whereas the Hendricks
>> version is for something else. No "counterpoise" is necessary.
>>

>> However, neither one will tune 15 mtrs EFHW as designed. I am able to
>> make the KI6J work 15-40 by using only the smaller section of the variable
>> capacitor. The problem is too much stray capacitance to tune 15 as is.
>>
>> 73, Fred - KT5X
>>
>> aka WS0TA
>>
>>
> .
>
>
>

9014. Re: [AT_Sprint] which paddle?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 01:46:17 UTC
From: Steven Weber
Topic: 9006 Message: 9014

I've done something similer in the past, using a modified clip board. I removed the clip from the top of the board and remounted it 4-5" lower so I could mount the rig and a paddle at the top of the board. Then a battery pack gets mounted to the bottom side.

Steve KD1JV

Great photographic testimonial for the ATS-4 Fred - I love the pre-wired perf board "desk". Do you ordinarily just set that in your lap in a seated position when you operate (when there's no fire tower) or ??? I'm definitely ergonomically challenged at this point and searching for clues ;-)

9015. ATS3 ergonomics

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 02:02:36 UTC
From: cloud runner
Topic: 9015 Message: 9015
Attachments: 3 described; binary payloads are missing from this source WARC

The answer to your direct question is, yes. So much depends on the hill. Out here, low hills, as in, less than 12,000 feet, and down to about 9,000 feet, are forested. I usually can find a rock or fallen tree to sit on, and put the pre-wired set up on my lap.

Lower hills, less than around 9,000 feet, are often barren desert hills, just cactus, and maybe low juniper trees, no logs. Sometimes rocks... hopefully!

And higher peaks, to 14,400 feet, those are above tree line, but there is usually a rock to sit on.

The ATS4 set up is very convenient and quick, but a bit heavier than the ATS3B set up.

Right now, my ultra-lyte set up with the ATS3B is done thus: I mount the EFHW tuner to the pole with a rubberband. I use a male RCA plug out of it, and that plugs directly into the ATS3B, no feedline, no adaptor.

The, I made an adaptor from the ATS3B DC plug to Anderson powerpole, and that plugs in directly to a tiny one inch plastic box in which I have a SPDT center off mini-toggle. Using series diodes, I can run the DC from a 3S LiPO directly through, or through one dropping diode, or through four dropping diodes. That lets me cut the voltage way down for tuning up, down a little when the battery is fully charged (12.4 volts), and full throttle after it has discharged a little bit.

In that arrangement, I mount a paddle (micro te-ne-ke to a 3x5 piece of perfboard for logging and sending.

Hope these ideas help you get a handle on your ergonomics!

73, Fred - kt5x

first photo shows back of perfboard with the micro te-ne-ke mounted, and rotated beneath a protective plastic cover during travel.

second photo shows key rotated out for use, log sheet, etc.

third photo shows arrangement for pole mountaing ATS3B with tuner and voltage controller.

Great photographic testimonial for the ATS-4 Fred - I love the pre-wired perf board "desk". Do you ordinarily just set that in your lap in a seated position when you operate (when there's no fire tower) or ??? I'm definitely ergonomically challenged at this point and searching for clues ;-)

73,
Barry N1EU

On Mon, Apr 30, 2012 at 10:16 PM, cloud runner <
Switch to: Text-Only, Daily Digest • Unsubscribe • Terms of Use.

9016. Re: WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 02:26:59 UTC
From: f_skinner
Topic: 9001 Message: 9016

Dale, perhaps we can round up a few users in this area and have a group effort. I wonder how many are in this area? I am not one for group activities like field day but think this might be a great group hams.

I am south of Colorado Springs, a few hours from you. I wonder which park, summit or area would work for a group?

Frank
K0JQZ

9017. the EFHW tuners

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 02:45:26 UTC
From: cloud runner
Topic: 9017 Message: 9017

Doug said he just tested his SOTA tuner with a 33 ft 10 inch wire and got it to tune. I wasn't able to get the LED to go out with the ratio suggested, it would dim, but not out. My ground may be enough different from out there on the coast, we have no ground ;-) that it behaves differently. I have found that different sites tune a little differently.

In any case, I have both one of Doug's SOTA tuners, and one of Stu's tuners, they are essentially the same. The transformer ratio is different, Stu uses a transformer ratio I think of 23:3, that I have had more success with. I am not an engineer, so I can't say which is really more effective. Shux, if you have either of these tuners, if you have any trouble tuning a half wave, you can easily fuss with the ratio on your core until it works in your situation.

I think the impedance of a halfwave is over 3,000 ohms. That calls for a 60:1 transformer to match it to 50 ohms. That's why most tuners can't handle it. Even when they appear to handle it, they may be just disappearing the SWR in heat.

I want to also share that I could not tune a halfwave on 15 meters with these tuners. It turns out there is too much capacitance even with the variable cap at minimum. I disconnected the larger section of the capacitor reducing the minimum capacitance, THEN they tune 15 meters, even so, barely.

Meanwhile, at the other end, to my astonishment, I was still, just barely, able to tune 40 meters as well. And now all tuning is much easier since the tuning is effectively finer!

Must admit, I really like the EFHW for these little ATS radios on SOTA peaks, and these tiny tuners are one way to make them behave!

73, fred

9018. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 03:28:03 UTC
From: Yannick DEVOS (XV4Y)
Topic: 8989 Message: 9018

I did not know this one.
Really nice design and it gives me idea for my homemade temporary paddle.
The price is similar to the AME DCP and I am a bit worried about how durable are the two springs when moved from place to place, so perhaps I will go for the AME, but I still have time to convince myself.

Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 30 avr. 2012 à 20:07, Hank Greeb a écrit :

>
>
> You might consider the Te-Ne-Ke from the North Ottawa (Michigan) ARC. The unit is often mounted on a heavy base for use in the home shack, but is easily removed to use with a leg strap when out in the field.
>
> See http://w8cso.org/index.php?page=teneke for details and a link to a brochure. Note you may pay several ways, including PayPal.
>
> Reviews on e-ham may be found at http://www.eham.net/reviews/detail/527
>
> 72/73 de n8xx Hg
>
> p.s. I'm not a member of NOARC, have no financial connection with the group, but I've seen the key in action, it's seems versatile and useful
>
> On 4/30/2012 6:07 AM, Yannick DEVOS (XV4Y) wrote:
>>
>> Hi,
>>
>> I am wondering what paddle do you use when on a trail?
>> I am rather new to CW and my only paddle is a Black Widow from W5JH.
>> I am really pleased with it. It is not perfect but fit me well.
>> I'd like to buy the baby black widow Jerry made for the PFR or KX1 but Jerry no longer sells paddles kits...
>>
>> I am looking at the K8RA P2Jr and AME PortaPaddle but the truth is that they are over my current budget.
>> I am ready to wait a little bit more and buy a good paddle but I would like to have advises from experimented QRPers...
>>
>> I am sending at 15-20wpm and have a light touch.

>> That said when going portable I can make effort to send slower even I find it boring...
>>
>> Thanks for your help.
>> 73,
>> Yan.
>> ---
>> Yannick DEVOS - XV4Y
>> http://xv4y.radioclub.asia/
>> http://varc.radioclub.asia/
>>
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>> ------------------------------------
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>> Yahoo! Groups Links
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9019. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 03:33:00 UTC
From: Hank Greeb
Topic: 8989 Message: 9019

I can't use an electronic key because I screwed up the rhythm by using a Vibroplex bug for 30+ years, so I can't vouch for any paddle. But, these folks have been making these for >10 years, and they continue to sell, so they must be useful.

72/73 de n8xx Hg

On 4/30/2012 11:28 PM, Yannick DEVOS (XV4Y) wrote:
>
>
> I did not know this one.
> Really nice design and it gives me idea for my homemade temporary paddle.
> The price is similar to the AME DCP and I am a bit worried about how
> durable are the two springs when moved from place to place, so perhaps
> I will go for the AME, but I still have time to convince myself.
>
> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
>
> Le 30 avr. 2012 ? 20:07, Hank Greeb a ?crit :
>
>>
>>
>> You might consider the Te-Ne-Ke from the North Ottawa (Michigan)
>> ARC. The unit is often mounted on a heavy base for use in the home
>> shack, but is easily removed to use with a leg strap when out in the
>> field.
>>
>> Seehttp://w8cso.org/index.php?page=teneke for details and a link to
>> a brochure. Note you may pay several ways, including PayPal.
>>
>> Reviews on e-ham may be found athttp://www.eham.net/reviews/detail/527
>>
>> 72/73 de n8xx Hg
>>
>> p.s. I'm not a member of NOARC, have no financial connection with the
>> group, but I've seen the key in action, it's seems versatile and useful
>>
>> On 4/30/2012 6:07 AM, Yannick DEVOS (XV4Y) wrote:
>>> Hi,
>>>
>>> I am wondering what paddle do you use when on a trail?

>>> I am rather new to CW and my only paddle is a Black Widow from W5JH.
>>> I am really pleased with it. It is not perfect but fit me well.
>>> I'd like to buy the baby black widow Jerry made for the PFR or KX1 but Jerry no longer sells paddles kits...
>>>
>>> I am looking at the K8RA P2Jr and AME PortaPaddle but the truth is that they are over my current budget.
>>> I am ready to wait a little bit more and buy a good paddle but I would like to have advises from experimented QRPers...
>>>
>>> I am sending at 15-20wpm and have a light touch.
>>> That said when going portable I can make effort to send slower even I find it boring...
>>>
>>> Thanks for your help.
>>> 73,
>>> Yan.
>>> ---
>>> Yannick DEVOS - XV4Y
>>> http://xv4y.radioclub.asia/
>>> http://varc.radioclub.asia/
>>>
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>>> Yahoo! Groups Links
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9020. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 03:33:18 UTC
From: Yannick DEVOS (XV4Y)
Topic: 8989 Message: 9020

Really nice work indeed, however I remember it was over my budget but I am unable to find the price list right now.
The current exchange rates are really favorable to euro those days.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 30 avr. 2012 à 21:59, Joseph Trombino, Jr a écrit :

>
> How about the Palm paddle...about the smallest and lightest I have ever used....really good "feel" to it too.
>
> 73, Joe W2KJ
> I QRP, therefore I am
>
>> My experience has been that no one makes a small enough, light enough paddle if you are taking it on the trail. At 15 to 20 wpm you are right where I am. I usually run around 17wpm to 20wpm and it doesn't take Bengali precision to send those speeds. My first paddle was the Ft Smith Paddle/Keyer kit and the whole thing fit in an altoids can. This was used with rigs with no keyer like my SST or SW+. I then built several single arm paddles using pcb and hardware. My current one is made out of an older SPST switch. You can see it in the photo folder labeled KD5KXF. Total cost was $2.16 so it fit my budget well too and took less than 15 minutes to make.
>
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> Yahoo! Groups Links
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9021. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 03:38:35 UTC
From: Yannick DEVOS (XV4Y)
Topic: 8989 Message: 9021

I didn't know the Witherook and they are nice.
However price is in the same range than American Morse (Hauff) and you lack some adjustments.
I think for this kind of design I can try to do it myself...

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 30 avr. 2012 à 23:27, <kd5kxf@...> <kd5kxf@...> a écrit :

> Nice paddle... if it is the one I am thinking of though, isn't it mag mount? I used a friends with a K2 and it wouldn't mount to the K2 because the case was aluminum. Worked like stink stuck to the tailgate of the truck though.
>
> Someone else mentioned the Whiterook. I haven't tried one so can't comment.
>
> I have had the tiny tenekey in the 35mm canister and it is great. Wish they still made it. I had the other one that is back in production and it is an amazingly good feeling key. I could run that one 25wpm+ with no problems. It however did not respond well to being thrown in the backpack and it ultimately died in the line of duty.
>
> But for something that I throw in a backback, I am looking for something light, durable, and replaceable. I forgot the Hauff portapaddle... that thing is nice and under $50.
> I used a paperclip key for a while too...
>
> My favorite is one I made with PVC and a piece of double sided and some 440 screws. That ugly brute will probably never die and darn sure no one is going to steel the thing but it works well. You just have to put something on a round handheld key so you can orient it in the dark or you will grab it upside down and send dots instead of dahs etc. The single lever paddle goes inside the pvc and you put screws in as contacts and wire the paddle common and the screws for dits and dahs. You can drill
> a whole to adjust the action of the lever.
>
> And these things with a a light rig and other light accessories means it can fit in tiny spaces and gets to go numerous places. My hunting trips usually involve QRO quantities of hunting gear so whatever I take has to be small and able to survive some rough treatment from time to time.
>
> Mike KD5KXF
> ---- "Joseph Trombino wrote:
>>
>> How about the Palm paddle...about the smallest and lightest I have ever used....really

good "feel" to it too.
>>
>> 73, Joe W2KJ
>> I QRP, therefore I am
>>
>>> My experience has been that no one makes a small enough, light enough paddle if you are taking it on the trail. At 15 to 20 wpm you are right where I am. I usually run around 17wpm to 20wpm and it doesn't take Bengali precision to send those speeds. My first paddle was the Ft Smith Paddle/Keyer kit and the whole thing fit in an altoids can. This was used with rigs with no keyer like my SST or SW+. I then built several single arm paddles using pcb and hardware. My current one is made out of an older SPST switch. You can see it in the photo folder labeled KD5KXF. Total cost was $2.16 so it fit my budget well too and took less than 15 minutes to make.
>>
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> Yahoo! Groups Links
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9022. Re: [AT_Sprint] Tuners to go

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 03:56:12 UTC
From: Yannick DEVOS (XV4Y)
Topic: 8998 Message: 9022

Good topic idea.

My own idea (still have to check it) was to build a GP using a tripod (you can find some cheap ones here) with a 5m fishing pole on top of it.
One wire for radiant, eight 2,5m wires for radials. If the fishing pole is too short I will use linear loading.
I use a similar design for my GP at home and it works really well.

My own usage will be closer to "field day" than trail, so weight is not that much a problem.
I can bring a tripod and a 6Ah sealed lead acid battery for example.
I just need something easy to set up and that does not draw to much batteries.
My main concern being the police (or army in some places) coming to check my authorizations.
I will have everything ok, but the landlord or the hotel owner will not be pleased with attracting attention...

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 1 mai 2012 à 00:46, kd5kxf a écrit :

> Since someone asked about keys, I would like to hear from other ATS owners about what antenna and tuner solutions you use. I seem to have built a small collection of these things. I used the QRPKITS SOTA tuner for QRPTTF and was pleased with the performance and ease of use.
>
> What are you using and why? These kind of conversations are always thought provoking to me. Currently I favor the End Fed Half Wave if I am planning on a single band or two band effort. I like the ease of installation, the options of putting it up as an inverted v, sloper, L, or vertical, and the ability to package the tuner in a small format.
>
> I used to use a 20 meter half wave inverted V fed with 300 ohm tv twinlead and a BLT.
>
> Mike KD5KXF
>
>
>
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>
> Yahoo! Groups Links
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>

9023. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 03:59:10 UTC
From: Yannick DEVOS (XV4Y)
Topic: 8989 Message: 9023

Hi Scott,

You highly detailed advice is of a real value.
Which AME do you own ? PortaPaddle or DCP ?

Thanks.
73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 1 mai 2012 à 01:53, Scott Cowling a écrit :

> Hi Yan,
>
> I have used Whiterook, HamKey, Bencher, Kent,
> Vibroplex, AME, Begali, N0SA roughly in order of
> my preference. (I am sure that there are others...)
>
> I have also used homebrew paddles made from lever
> switches, hacksaw blades, and PCB material, as
> well as touch switch paddles. None of these were ever more than toys.
>
> Some of the old Heathkit keyers with built-in
> paddles are OK, some not. (The Heathkit HD-1410
> takes the award for the absolute *worst* paddle I
> have ever used, even worse than my Vibroplex
> Champion bug converted to a paddle).
>
> Anyway, what counts to me is "when I sit down at
> the home station, which paddle do I use?" It is
> the AME. Which do I use with the FT-817? The AME.
> Which do I use with the ATS-4B? The AME. There
> is a pattern there somewhere. :-)
>
> The high end paddles look very nice, key very
> nice and are a joy to use. But you would never
> take them out into the field. And the "solid"
> feel of the AME paddles is exceptional, rivalling
> the high end paddles (I'm sure I'll get some
> arguments here :-). And they are almost
> indestructible. And you can get one that weighs only 2.5 oz. (about 70g?)
>
> My advice would be to save for the AME - you will

> not be sorry. You will enjoy it every time you sit down to operate your rig.
>
> There are as many opinions as there are paddles - mine is just one.
>
> 73,
> Scotty WA2DFI
>
>
>
>
>
> At 17:07 2012-04-30 +0700, Yannick DEVOS (XV4Y) wrote:
>>
>>
>> Hi,
>>
>> I am wondering what paddle do you use when on a trail?
>> I am rather new to CW and my only paddle is a Black Widow from W5JH.
>> I am really pleased with it. It is not perfect but fit me well.
>> I'd like to buy the baby black widow Jerry made
>> for the PFR or KX1 but Jerry no longer sells paddles kits...
>>
>> I am looking at the K8RA P2Jr and AME
>> PortaPaddle but the truth is that they are over my current budget.
>> I am ready to wait a little bit more and buy a
>> good paddle but I would like to have advises from experimented QRPers...
>>
>> I am sending at 15-20wpm and have a light touch.
>> That said when going portable I can make effort
>> to send slower even I find it boring...
>>
>> Thanks for your help.
>> 73,
>> Yan.
>> ---
>> Yannick DEVOS - XV4Y
>> <http://xv4y.radioclub.asia/>http://xv4y.radioclub.asia/
>> http://varc.radioclub.asia/
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> <911a3d.jpg>

9024. Re: [AT_Sprint] WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 04:01:40 UTC
From: Yannick DEVOS (XV4Y)
Topic: 9001 Message: 9024

Hi Dale,

Great news, I will forward it to the medias I know.
TIme frame is also good to me with some propagation probability to the US, even if July is harder than march for example.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 1 mai 2012 à 02:44, Dale Putnam a écrit :

>
>
> http://ats-sprint.blogspot.com/
> Check this out... !!!
>
> On the Saturday evening... this coming July 21 US time,.... but 0000z July 22... zulu time, oh man... oh man... this is going to be so much fun!!
> We can all get together... and have a sprint. Gather up call signs of many of the folks that have similar radios... of the same family, The ATS family.
>
> oh... and you had better watch the exchanges too... because there are some of us that have more than one of these marvelous fantastically fine, and
> awesomely spectacular...(huh?... oh.. ok).. simply spectac.... (huh?.... oh... ok).... they are daggone good. (There happy now?)
>
> So the exchange from the same station could be a 1, 2, 3, 4. Just not at the same time... maybe alternating.
>
> All kidding aside, tell your friends, tell your neighbors, and anyone else... and make plans now...
> Steve KD1JV may be able to get on with u s too.. check the rules... there is a bonus for that too.
>
> See you in the ATS-SPRINT!!
>
> But don't bring your "BIG" rig... that don't don't hunt here!!!!
>
> Have a great day!!
>
>
>

> --... ..--- Dale - WC7S in Wy
>
>
>

9025. Re: [AT_Sprint] which paddle?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 04:03:12 UTC
From: Yannick DEVOS (XV4Y)
Topic: 9006 Message: 9025

Nice picture of a great setup. It gives me many ideas...

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 1 mai 2012 à 05:16, cloud runner a écrit :

>
>
> Home made, no cost, 8 grams, used reeds from a 40's vintage relay.
>
> Seen here in use on QRPTTF this weekend. Tuner seen is by KI6J, but in a hendricks box. Antenna is a true EFHW, no counterpoise at all, here goes out on a fishing pole about ten feet, then hangs down using a firetower as a reflector. to the northeast.
>
> QTH W5N/PW-022, Barillas Peak firetower, San Miguel County, New Mexico.
>
> Station is pre-wired, LiPO battery is mounted on the back. Attach antenna, stick earbuds in ears, and have at it.
>
> 72, Fred - KT5X
>
> AKA WS0T
>
> <WS0TA_2012_QRPTTF_1.JPG>
>
>
>

9026. Re: [AT_Sprint] Which paddle for a MTR/ATS rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 06:51:54 UTC
From: Scott Cowling
Topic: 8989 Message: 9026

Hi Yan,

I am a single-lever paddle guy, so I use a Portapaddle for field work
and a Bushwacker for the "big rig" at home.

At any one time, I have several rigs set up at the operating position
(isn't QRP great?)

So I have the Bushwacker hooked up to the Omni VI, the N0SA single
lever hooked up to the IC-703+ and a J38 connected to a Wilderness
Sierra. Also sitting on the desk is a 40M Rockmite with no paddle
connected. :-)

The Portapaddle is packed in my "field bag" with the ATS-4B and the MTR.

So many rigs, so little time! :-)

Whichever one you choose, you will have fun with it!

73,
Scotty WA2DFI

At 10:59 AM 5/1/2012 +0700, you wrote:
>
>
>Hi Scott,
>
>You highly detailed advice is of a real value.
>Which AME do you own ? PortaPaddle or DCP ?
>
>Thanks.
>73,
>Yan.
>---
>Yannick DEVOS - XV4Y
><http://xv4y.radioclub.asia/>http://xv4y.radioclub.asia/
>http://varc.radioclub.asia/

9027. Witch paddle

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 08:28:12 UTC
From: jor
Topic: 9027 Message: 9027

Nice to see all those inventive paddle designs.
I am working on a small one for mounting on a knee plate or in the TRX housing. see CW NANO KEYER 005.jpg file in Photos

73'
Joris PE1KTH

9028. Re: the EFHW tuners

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 09:37:41 UTC
From: n1rx
Topic: 9017 Message: 9028

In a transformer (as in the EFHW tuner designs), the impedance transformation ratio is the square of the turns ratio. So... to use your 3000:50 figures: impedance ratio of 60:1, take the square root for the turns ratio, or 7.75 for the turns ratio. This could be a 3 turn primary and a 23 turn secondary. Some prefer an 8:1 ratio, some prefer a 10:1. It depends on a lot of factors. Experimentation can lead you to what will work best for your own conditions.

Anybody with an interest in EFHW tuners should read AA5TB's excellent page on the subject. Google AA5TB EFHWA will get you there...

73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "cloud runner" <just.one.hill@...> wrote:
>
> I think the impedance of a halfwave is over 3,000 ohms. That calls for a 60:1 transformer to match it to 50 ohms. That's why most tuners can't handle it. Even when they appear to handle it, they may be just disappearing the SWR in heat.
> 73, fred

9029. Re: Witch paddle

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 10:15:25 UTC
From: n1rx
Topic: 9027 Message: 9029

Very nice, Joris! Do you intend to sell these?
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "jor" <kthkit@...> wrote:
>
> Nice to see all those inventive paddle designs.
> I am working on a small one for mounting on a knee plate or in the TRX housing. see CW NANO KEYER 005.jpg file in Photos
>
> 73'
> Joris PE1KTH
>

9030. St. Louis Paddle (Which Paddle?)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 04:53:20 UTC
From: david gauding
Topic: 9030 Message: 9030
Attachments: 1 described; binary payloads are missing from this source WARC

Hello Yan,

You might find this St. Louis Paddle project useful. A .pdf is attached. My late friend Andy Becker, W0NVM and I designed it together in 2000. Paul Harden NA5N did the artwork. Doug Hendricks, KI6DS reprinted the article in the Winter 2000 issue of QRPp.

I made a few changes and improvements over the years but still use and enjoy this paddle. It's low-cost (cheap?) and serviceable in the field or at home. I prefer two-handed paddles because on the trail it is hard to find perfect spots for the radio, a desk-top paddle and my butt in the same location. The SLP also plugs right into a portable station I built around an old DSW-20 xcvr. This is a useful option.

I usually operate CW between 18-22 WPM. The single lever SLP works just fine in that range. The last SLP built here was 1/2" shorter than the original. This tightened up the action significantly. I also scrapped the lightening hole in the arm and used thinner brass stock. My latest "handle" is a small diameter plastic pill bottle that will just take a common 1/4" panel-mount stereo jack.

We weighed the complete paddle assembly once. I don't remember tonight what that was but it sure wasn't much. We thought at the time that would appeal to long-distance backpackers. A very light and flexible cable was salvaged from a computer mouse.

Builders need to have patience, a vice and a "third hand" to hold parts in place for soldering. Tedious is exactly the right word! Once the gaps are set the paddle is pretty much maintenance free unless you do something dumb like step on it. Which without elaborating is why I kept two in my field kit. <g>

I bought an AME Mini-B paddle kit about two years ago and right after they were announced. It's an excellent portable paddle, probably the best available right now but as you know very pricey. I modified this paddle slightly for two-handed use by adding a base plate and using short set-screws.

The SLP was my portable paddle of choice for a good ten years and will still be dusted off from time-to-time. If you decide to build one I'd be interested hearing about the experience.

Best regards,

Dave Gauding, NF0R

9031. RE: [AT_Sprint] WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 13:08:56 UTC
From: Dale Putnam
Topic: 9001 Message: 9031

Thank you, and I'll be listening for you too! Maybe if we can get enough activity, we can convince the committee to do it again!And do it next time in a different season... different props. That would be fun too.Have a great day,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: yannick.devos@...
Date: Tue, 1 May 2012 11:01:40 +0700
Subject: Re: [AT_Sprint] WHAAAHOOOO!!!!!

Hi Dale,
Great news, I will forward it to the medias I know.TIme frame is also good to me with some propagation probability to the US, even if July is harder than march for example.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/http://varc.radioclub.asia/

Le 1 mai 2012 à 02:44, Dale Putnam a écrit :

http://ats-sprint.blogspot.com/
Check this out... !!!

On the Saturday evening... this coming July 21 US time,.... but 0000z July 22... zulu time, oh man... oh man... this is going to be so much fun!!
We can all get together... and have a sprint. Gather up call signs of many of the folks that have similar radios... of the same family, The ATS family.

oh... and you had better watch the exchanges too... because there are some of us that have more than one of these marvelous fantastically fine, and
awesomely spectacular...(huh?... oh.. ok).. simply spectac.... (huh?.... oh... ok).... they are daggone good. (There happy now?)

So the exchange from the same station could be a 1, 2, 3, 4. Just not at the same time... maybe alternating.

All kidding aside, tell your friends, tell your neighbors, and anyone else... and make plans now...
Steve KD1JV may be able to get on with u s too.. check the rules... there is a bonus for that too.

See you in the ATS-SPRINT!!

But don't bring your "BIG" rig... that don't don't hunt here!!!!

Have a great day!!

--... ..--- Dale - WC7S in Wy

9032. Question about impedance matching

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 13:27:46 UTC
From: Hank Greeb
Topic: 8998 Message: 9032

IF an antenna has 3000 or 5000 or whatever ohms resistive why does it need to have a "tuner?" Why not a transformer? There's no reactance to tune out, or is there?

Just a bit curious.

72/73 de n8xx Hg

9033. RE: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 13:36:53 UTC
From: Dale Putnam
Topic: 9001 Message: 9033

Hi Frank, One that would be nifty would be Pikes Peak for the summer event. Steve - The Goat Man, has one too. He likes Mt Herman. It would be a cool multi op event I think. How many can you put on the air together? That would be a blast!

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: f_skinner@...
Date: Tue, 1 May 2012 02:26:59 +0000
Subject: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Dale, perhaps we can round up a few users in this area and have a group effort. I wonder how many are in this area? I am not one for group activities like field day but think this might be a great group hams.

I am south of Colorado Springs, a few hours from you. I wonder which park, summit or area would work for a group?

Frank

K0JQZ

9034. RE: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 13:59:30 UTC
From: Mike Baker
Topic: 9001 Message: 9034

Hey Dale,

I believe the guys in Colorado have an event called the 14er for peaks above 14K feet. Don't remember when it is but perhaps using that event as a trial would prove interesting.

BTW, gonna work the 7QP this weekend pretty seriously just to see how well I can do.

Mike Baker K7DD

<mailto:K7dd@...> K7dd@...

All QSO's are uploaded to LOTW and EQSL.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Tuesday, May 01, 2012 6:37 AM
To: AT Sprint
Subject: RE: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Hi Frank,
One that would be nifty would be Pikes Peak for the summer event. Steve - The Goat Man, has one too. He likes Mt Herman.
It would be a cool multi op event I think. How many can you put on the air together? That would be a blast!

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: f_skinner@...
Date: Tue, 1 May 2012 02:26:59 +0000
Subject: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Dale, perhaps we can round up a few users in this area and have a group effort. I wonder how many are in this area? I am not one for group activities like field day but think this might be a great group hams.

I am south of Colorado Springs, a few hours from you. I wonder which park, summit or area would work for a group?

Frank
K0JQZ

9035. Re: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 14:00:36 UTC
From: Hank Greeb
Topic: 9001 Message: 9035

And/or, Mount Evans? I don't recall if the road to the top of that itty bitty hill (14,265 feet or 4,348 metres) is open after dark. Of course, in the Mountain time zone, 0000Z is a few hours before sundown. I've not been at the summit since the 1950's, and if I tried it now a daze, I'd probably need three or more days to get used to the altitude, if I'd ever get used to >14,000 feet. Even back in the days when I lived in Denver, I'd get light headed on top of a 14K mountain.

Are there any W?CQC (Colorado QRP Club) members in this conference? They're very active in other events, especially Field Day, but I don't know the members who are doing SOTA activities.

They have a link to SOTA on their home page (http://www.cqc.org)

72/73 de n8xx Hg

On 5/1/2012 9:36 AM, Dale Putnam wrote:
>
> Hi Frank,
> One that would be nifty would be Pikes Peak for the summer event.
> Steve - The Goat Man, has one too. He likes Mt Herman.
> It would be a cool multi op event I think. How many can you put on the
> air together? That would be a blast!
>
> --... ...-- Dale - WC7S in Wy
>
> ---
> To: AT_Sprint@yahoogroups.com
> From: f_skinner@...
> Date: Tue, 1 May 2012 02:26:59 +0000
> Subject: [AT_Sprint] Re: WHAAAHOOOO!!!!!
>
> Dale, perhaps we can round up a few users in this area and have a
> group effort. I wonder how many are in this area? I am not one for
> group activities like field day but think this might be a great group
> hams.
>
> I am south of Colorado Springs, a few hours from you. I wonder which
> park, summit or area would work for a group?
>
> Frank
> K0JQZ

9036. RE: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 14:12:35 UTC
From: Mike Baker
Topic: 9001 Message: 9036

Hi Hank,

I didn☐t know you once lived in the Denver area.

My former call was KØQZ (WBØGMF prior to that) and I lived in Broomfield
from 70☐ to 79☐.

Just hearing the name Mt. Evans brings back memories of a VERY COLD field
day from atop Mt. Evans. Burrrr!

I can☐t believe we (my old friend Brian and I) hauled tube type HF gear and
a generator and supplies up that Mt.!

Mike Baker K7DD

<mailto:K7dd@...> K7dd@...

All QSO's are uploaded to LOTW and EQSL.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of Hank Greeb
Sent: Tuesday, May 01, 2012 7:01 AM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: WHAAAHOOOO!!!!!

And/or, Mount Evans? I don't recall if the road to the top of that itty
bitty hill (14,265 feet or 4,348 metres) is open after dark. Of course, in
the Mountain time zone, 0000Z is a few hours before sundown. I've not been
at the summit since the 1950's, and if I tried it now a daze, I'd probably
need three or more days to get used to the altitude, if I'd ever get used to
>14,000 feet. Even back in the days when I lived in Denver, I'd get light
headed on top of a 14K mountain.

Are there any WØCQC (Colorado QRP Club) members in this conference? They're
very active in other events, especially Field Day, but I don't know the
members who are doing SOTA activities.

They have a link to SOTA on their home page (http://www.cqc.org)

72/73 de n8xx Hg

On 5/1/2012 9:36 AM, Dale Putnam wrote:

Hi Frank,
One that would be nifty would be Pikes Peak for the summer event. Steve -
The Goat Man, has one too. He likes Mt Herman.
It would be a cool multi op event I think. How many can you put on the air
together? That would be a blast!

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: f_skinner@...
Date: Tue, 1 May 2012 02:26:59 +0000
Subject: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Dale, perhaps we can round up a few users in this area and have a group effort. I wonder how many are in this area? I am not one for group activities like field day but think this might be a great group hams.

I am south of Colorado Springs, a few hours from you. I wonder which park, summit or area would work for a group?

Frank
K0JQZ

9037. Re: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 14:35:42 UTC
From: Frank Skinner
Topic: 9001 Message: 9037

The 14er event is in Aug.

http://www.14er.org/

I like Mount Herman as it is easy to get to but would be open to other summits as well. I am a member if the Colorado QRP group but have never made a meeting (it is a time management/distance issue for me) and they are coming to the Pikes Peak Ham Club group to talk at the next meeting and I am working 12 to 14 hour days for the next 7 days so do not think I will be able to meet them.

I like the Mount Herman idea Dale, it is easy to get to. I have never operated from Pikes Peak or Mt Evans so I would be up for those as well. Actually, I am open to just about any area to operate from that is FREE.... hi hi

I have to start being a good boy about now in order to get clearance from the XYL.... If she passes her General Exam during the Colorado Springs Hamfest she gets a new KX3. I may be able to talk her into coming with very easliy.

Frank
K0JQZ

From: Mike Baker <k7dd@...>
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, May 1, 2012 7:59 AM
Subject: RE: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Hey Dale,
I believe the guys in Colorado have an event called the 14er for peaks above 14K feet. Don’t remember when it is but perhaps using that event as a trial would prove interesting. BTW, gonna work the 7QP this weekend pretty seriously just to see how well I can do.

Mike Baker K7DD
K7dd@...
All QSO's are uploaded to LOTW and EQSL.

From:AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Tuesday, May 01, 2012 6:37 AM
To: AT Sprint
Subject: RE: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Hi Frank,
  One that would be nifty would be Pikes Peak for the summer event. Steve - The Goat Man, has one too. He likes Mt Herman.
It would be a cool multi op event I think. How many can you put on the air together? That would be a blast!

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: f_skinner@...
Date: Tue, 1 May 2012 02:26:59 +0000
Subject: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Dale, perhaps we can round up a few users in this area and have a group effort. I wonder how many are in this area? I am not one for group activities like field day but think this might be a great group hams.

I am south of Colorado Springs, a few hours from you. I wonder which park, summit or area would work for a group?

Frank
K0JQZ

9038. RE: the EFHW tuners

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 14:38:00 UTC
From: Mike Baker
Topic: 9017 Message: 9038

A few years ago I tried and idea that worked pretty well.

Using a T-50-6 core I wound 29 turns with taps every other turn starting at turn 4.

I then wound a primary coupling winding over the 4 turn start of the first winding consisting of 4 turns.

Those 4 turns had a tap at turn 2 and 4.

The cold end of the two windings became ground for the feed and the load.

This Autotransformer design allowed me to basically make a wide range matcher out of it.

The primary 4 turn coil had a small value air variable cap across it to tune out the reactance. 25pf comes to mind but I don't remember. Surplus Hammarlund mini air variable.

It matched all kinds of stuff pretty well.

There was another air variable with alligator clips on it that could be parallel with the 29 turn coil to tweak it if needed.

The whole thing was on a piece of perf board for testing and never made it into a case and is now lost in the clutter someplace.

Mike Baker K7DD

<mailto:K7dd@...> K7dd@...

All QSO's are uploaded to LOTW and EQSL.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of cloud runner
Sent: Monday, April 30, 2012 7:45 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] the EFHW tuners

Doug said he just tested his SOTA tuner with a 33 ft 10 inch wire and got it to tune. I wasn't able to get the LED to go out with the ratio suggested, it would dim, but not out. My ground may be enough different from out there on the coast, we have no ground ;-) that it behaves differently. I have found that different sites tune a little differently.

In any case, I have both one of Doug's SOTA tuners, and one of Stu's tuners, they are essentially the same. The transformer ratio is different, Stu uses a transformer ratio I think of 23:3, that I have had more success with. I am not an engineer, so I can't say which is really more effective. Shux, if

you have either of these tuners, if you have any trouble tuning a half wave, you can easily fuss with the ratio on your core until it works in your situation.

I think the impedance of a halfwave is over 3,000 ohms. That calls for a 60:1 transformer to match it to 50 ohms. That's why most tuners can't handle it. Even when they appear to handle it, they may be just disappearing the SWR in heat.

I want to also share that I could not tune a halfwave on 15 meters with these tuners. It turns out there is too much capacitance even with the variable cap at minimum. I disconnected the larger section of the capacitor reducing the minimum capacitance, THEN they tune 15 meters, even so, barely.

Meanwhile, at the other end, to my astonishment, I was still, just barely, able to tune 40 meters as well. And now all tuning is much easier since the tuning is effectively finer!

Must admit, I really like the EFHW for these little ATS radios on SOTA peaks, and these tiny tuners are one way to make them behave!

73, fred

9039. RE: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 15:47:08 UTC
From: Dale Putnam
Topic: 9001 Message: 9039

Sounds like a plan. Being good.. doing one of the three.... If the price of gas doesn't get any better... I'll likely have to do something very close to home...something about prices.. vs pocketbook.. you know.I think it will be wonderful when she passes her General, a KX3 in the family is a really good thing.And getting her to go with.. is just icing on the cake...and that makes it so much better. I can relate to too many things.. not enough hours... That is true.. very true. We'll keep in touch, maybe we can scare up some folks from the Colorado QRP club too.Have a great day,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: f_skinner@yahoo.com
Date: Tue, 1 May 2012 07:35:42 -0700
Subject: Re: [AT_Sprint] Re: WHAAAHOOOO!!!!!

The 14er event is in Aug.

http://www.14er.org/

I like Mount Herman as it is easy to get to but would be open to other summits as well. I am a member if the Colorado QRP group but have never made a meeting (it is a time management/distance issue for me) and they are coming to the Pikes Peak Ham Club group to talk at the next meeting and I am working 12 to 14 hour days for the next 7 days so do not think I will be able to meet them.

I like the Mount Herman idea Dale, it is easy to get to. I have never operated from Pikes Peak or Mt Evans so I would be up for those as well. Actually, I am open to just about any area to operate from that is FREE.... hi hi

I have to start being a good boy about now in order to get clearance from the XYL.... If she passes her General Exam during the Colorado Springs Hamfest she gets a new KX3. I may be able to talk her into coming with very easliy.

Frank
K0JQZ

From: Mike Baker <k7dd@...>
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, May 1, 2012 7:59 AM
Subject: RE: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Hey Dale,
I believe the guys in Colorado have an event called the 14er for peaks above 14K feet. Don’t remember when it is but perhaps using that event as a trial would prove interesting. BTW, gonna work the 7QP this weekend pretty seriously just to see how well I can do.

Mike Baker K7DD
K7dd@...
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From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Tuesday, May 01, 2012 6:37 AM
To: AT Sprint
Subject: RE: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Hi Frank,
One that would be nifty would be Pikes Peak for the summer event. Steve - The Goat Man, has one too. He likes Mt Herman.
It would be a cool multi op event I think. How many can you put on the air together? That would be a blast!

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: f_skinner@...
Date: Tue, 1 May 2012 02:26:59 +0000
Subject: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Dale, perhaps we can round up a few users in this area and have a group effort. I wonder how many are in this area? I am not one for group activities like field day but think this might be a great group hams.

I am south of Colorado Springs, a few hours from you. I wonder which park, summit or area would work for a group?

Frank
K0JQZ

9040. Re: [AT_Sprint] Question about impedance matching

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 16:20:25 UTC
From: WA0ITP
Topic: 8998 Message: 9040

A transformer works fairly well. 1:1 swr may not be achieve but its a useable matching device.

I first learned about it from W5JH and WA5BDU, and used it in a couple of balloon beacon transmitters.

More here http://pages.suddenlink.net/wa5bdu/efhw.htm and
http://www.wa0itp.com/fig%202.pdf

I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: Hank Greeb
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, May 01, 2012 8:27 AM
Subject: [AT_Sprint] Question about impedance matching

IF an antenna has 3000 or 5000 or whatever ohms resistive why does it need to have a "tuner?" Why not a transformer? There's no reactance to tune out, or is there?

Just a bit curious.

72/73 de n8xx Hg

9041. Re: Witch paddle

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 16:42:19 UTC
From: jor
Topic: 9027 Message: 9041

Hi Bruce,N1RX

I wander if there is a market for there are already so many small paddles on the market. also in the USA.
It is a fun project Hi.

73' Joris PE1KTH

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
>
> Very nice, Joris! Do you intend to sell these?
> 73,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, "jor" <kthkit@> wrote:
> >
> > Nice to see all those inventive paddle designs.
> > I am working on a small one for mounting on a knee plate or in the TRX housing. see CW NANO KEYER 005.jpg file in Photos
> >
> > 73'
> > Joris PE1KTH
> >
>

9042. July 21st local - a Saturday bunch of fun

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 17:29:17 UTC
From: Dale Putnam
Topic: 9042 Message: 9042

There is a cure for the summer doldrums... hot summer nights... how weeks in the city... summer... in the city.... got the answer.. I do.. and you can too.. make plans now for a simple three hour event... and celebrate the awesome magic of Steve Weber's ATS radios... they simply perform, and they do it in such a way as to let one relax, rather than get all worked up. So.. lets go have some fun, grab your to-go bag, and set up on a cool hilltop, ormountaintop, or park.... no.. not under the waterfall, maybe close.. but not that close. Check it out... http://ats-sprint.blogspot.com/ Now someone is about to ask.. just exactly how is it that the PFR3 could play in an ATS radio event?.. the answer is simple:KD1JV designed them both.. so they are all in the same extended family. And barring family squabbles... they do all talk to one another.http://ats-sprint.blogspot.com/ There has been some folks asking about multi ops... and multi radios... the answer: Sure why not? and one fellow I know of is making this the first outing for his wife, a brand new General.. to make a trip to the mountain top and enjoy the radio together.What a blast that will be. and one last thing.. Steve is going to be on the Continental Divide.. and hopefully he will be able to be on too..Make plans.. this could be a blast!!
--... ...--
Dale - WC7S in Wy

9043. Re: Tuners to go

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 18:19:46 UTC
From: omehegan
Topic: 8998 Message: 9043

FWIW, I built an Emtech ZM-2 tuner to go with my first QRP rig. It's rated for up to 15 watts, and tunes balanced and unbalanced antennas. It can't do an EFHW I don't think. As kitted, it's a little large, but the construction is "ugly style" so you could use a smaller enclosure. Compared to the Hendricks SOTA tuner it's a bit pricey. It has always worked great for me though!

--- In AT_Sprint@yahoogroups.com, "kd5kxf" <kd5kxf@...> wrote:
>
> Since someone asked about keys, I would like to hear from other ATS owners about what antenna and tuner solutions you use. I seem to have built a small collection of these things. I used the QRPKITS SOTA tuner for QRPTTF and was pleased with the performance and ease of use.
>
> What are you using and why? These kind of conversations are always thought provoking to me. Currently I favor the End Fed Half Wave if I am planning on a single band or two band effort. I like the ease of installation, the options of putting it up as an inverted v, sloper, L, or vertical, and the ability to package the tuner in a small format.
>
> I used to use a 20 meter half wave inverted V fed with 300 ohm tv twinlead and a BLT.
>
> Mike KD5KXF
>

9044. Re: [AT_Sprint] WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 19:56:35 UTC
From: Peter Martin
Topic: 9001 Message: 9044

On Mon, Apr 30, 2012 at 8:44 PM, Dale Putnam <daleputnam@...> wrote:

>
>
> http://ats-sprint.blogspot.com/
> Check this out... !!!
>
> On the Saturday evening... this coming July 21 US time,.... but 0000z July
> 22... zulu time, oh man... oh man... this is going to be so much fun!!
> We can all get together... and have a sprint. Gather up call signs of many
> of the folks that have similar radios... of the same family, The ATS family.
>
>

Dale, I'll try and give it a go with my ATS4 and MTR. That's the dead of
night so unsure what propagation we'll have Stateside from here!
I've been out practising; just heard today that this summit to summit qso
with OM3CUG/P was an ATS3b to ATS4 QSO!

http://youtu.be/e7_PVp2t5BA

72
Pete
G4ISJ

9045. Re: [AT_Sprint] Question about impedance matching

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 20:34:13 UTC
From: mstangelo@comcast.net
Topic: 8998 Message: 9045

Hank,

A end fed half-wave antenna is only purely resistive (no reactance) at it's resonant frequency. One you tune above of below this frequency you get a reactive component.

A transformer cannot get rid of this rwactive component. You need an LC parallel network or an L, Pi or T network.

Mike N2MS

----- Original Message -----
From: Hank Greeb <n8xx@...>
To: AT Sprint <AT_Sprint@yahoogroups.com>
Sent: Tue, 01 May 2012 13:27:46 -0000 (UTC)
Subject: [AT_Sprint] Question about impedance matching

IF an antenna has 3000

or 5000 or whatever ohms resistive why does it need to have a

"tuner?" Why not a transformer? There's no reactance to tune

out, or is there?

Just a bit curious.

72/73 de n8xx Hg

9046. Re: [AT_Sprint] Question about impedance matching

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 21:09:11 UTC
From: Hank Greeb
Topic: 8998 Message: 9046

Yep, I know that, I know that. But the proponents of the Half wave, end fed, often neglect that nicety.

My antenna of choices is a wire which fits between 2 convenient points, is preferably at least 1/4 wavelength long at the frequency of choice, but not more than 5/8 wavelength (if end fed) or 1.25 wavelength if fed in the center. I then use an impedance matching device to convert whatever impedance is presented by the antenna to 50 ohms resistive or there about so my rig is happy. And, I always use a ground steak or a counterpoise even if some bright person says I can "float" my rig above ground potential with no consequences. I've been "bitten" by RF enough times when I've forgotten that connection.

72/73 de n8xx Hg

On 5/1/2012 4:34 PM, mstangelo@... wrote:
>
> Hank,
>
> A end fed half-wave antenna is only purely resistive (no reactance) at
> it's resonant frequency. One you tune above of below this frequency
> you get a reactive component.
>
> A transformer cannot get rid of this rwactive component. You need an
> LC parallel network or an L, Pi or T network.
>
> Mike N2MS

9047. Re: Question about impedance matching

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-01 21:40:34 UTC
From: lee
Topic: 8998 Message: 9047

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:

> IF an antenna has 3000 or 5000 or whatever ohms resistive why does it
> need to have a "tuner?" Why not a transformer? There's no reactance to
> tune out, or is there?

That's pretty much how the Par 10/20/40 works - it will work on any band from 10 through 40 as long as you have a resonant 1/2 wave of wire.

73 de Lee, AA4GA

9048. RE: [AT_Sprint] WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 02:56:30 UTC
From: Dale Putnam
Topic: 9001 Message: 9048

Hey Pete, Tell me, when and what bands do you hear the US... and of course I am prejudiced, so I gotta ask, especially the Western US... ?? It just could be that the committee will take that into consideration for the next one... maybe make it a three piece affair... ?? or make it longer... gotta think that through some.. any thoughts?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: paradoxpete.pdm@...
Date: Tue, 1 May 2012 20:56:35 +0100
Subject: Re: [AT_Sprint] WHAAAHOOOO!!!!!

On Mon, Apr 30, 2012 at 8:44 PM, Dale Putnam <daleputnam@...> wrote:

http://ats-sprint.blogspot.com/
Check this out... !!!

On the Saturday evening... this coming July 21 US time,.... but 0000z July 22... zulu time, oh man... oh man... this is going to be so much fun!!

We can all get together... and have a sprint. Gather up call signs of many of the folks that have similar radios... of the same family, The ATS family.

Dale, I'll try and give it a go with my ATS4 and MTR. That's the dead of night so unsure what propagation we'll have Stateside from here!

I've been out practising; just heard today that this summit to summit qso with OM3CUG/P was an ATS3b to ATS4 QSO!

http://youtu.be/e7_PVp2t5BA

72
Pete
G4ISJ

9049. Re: Enclosure for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 06:07:49 UTC
From: katsumi.seto
Topic: 8812 Message: 9049

I used a plastic enclssure for MTR. I was looking for a plastic one first but could not find any enclosure suitable for installing my MTR. It is "Takachi SW-95". I am not sure if it is available oveseas.

http://homepage3.nifty.com/VYG06610/A1C/MTR/JA7QIL_MTR_0001.jpg

http://homepage3.nifty.com/VYG06610/A1C/MTR/JA7QIL_MTR_0106.jpg

I have not upgraded the firmware yet. I will try it this weekend.

de ja7qil/Katsu

--- In AT_Sprint@yahoogroups.com, "Joseph Trombino, Jr" <jotrom@...> wrote:
>
>
>
> > Still looking for a suitable enclosure for the MTR rig...with enough room for batteries (8 AA's)
> >
> > My preference is for a clam-shell type of cabinet ala the K2, RH series of radios...this type of enclosure permits access to both sides of the board at the same time.
> >
> > Any suggestions??
> >
> > 73, Joe W2KJ
> > I QRP, therefore I am
>

9050. Re: [AT_Sprint] Re: Enclosure for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 11:14:58 UTC
From: John Evans - N0HJ
Topic: 8812 Message: 9050

Greetings Katsu,

Very nice job in a nice tight enclosure. I particularly like the
label design. Can you tell us about the volume control addition? Did
you add an audio amp or is it just an inline control with the headphones?

tnx es 72 - john - n0hj

On 5/2/2012 12:07 AM, katsumi.seto wrote:
>
> I used a plastic enclssure for MTR. I was looking for a plastic one
> first but could not find any enclosure suitable for installing my MTR.
> It is "Takachi SW-95". I am not sure if it is available oveseas.
>
> http://homepage3.nifty.com/VYG06610/A1C/MTR/JA7QIL_MTR_0001.jpg
>
> http://homepage3.nifty.com/VYG06610/A1C/MTR/JA7QIL_MTR_0106.jpg
>
> I have not upgraded the firmware yet. I will try it this weekend.
>
> de ja7qil/Katsu
>

9051. Re: Enclosure for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 11:42:18 UTC
From: katsumi.seto
Topic: 8812 Message: 9051

No amplifier. Just an inline control. It the smallest 500 ohm pot available I could find in Tokyo last week. de ja7qil/katsu

--- In AT_Sprint@yahoogroups.com, John Evans - N0HJ <jaevans@...> wrote:
>
> Greetings Katsu,
>
> Very nice job in a nice tight enclosure. I particularly like the
> label design. Can you tell us about the volume control addition? Did
> you add an audio amp or is it just an inline control with the headphones?
>
> tnx es 72 - john - n0hj
>
> On 5/2/2012 12:07 AM, katsumi.seto wrote:
> >
> > I used a plastic enclssure for MTR. I was looking for a aluminum one
> > first but could not find any enclosure suitable for installing my MTR.
> > It is "Takachi SW-95". I am not sure if it is available oveseas.
> >
> > http://homepage3.nifty.com/VYG06610/A1C/MTR/JA7QIL_MTR_0001.jpg
> >
> > http://homepage3.nifty.com/VYG06610/A1C/MTR/JA7QIL_MTR_0106.jpg
> >
> > I have not upgraded the firmware yet. I will try it this weekend.
> >
> > de ja7qil/Katsu
> >
>

9052. Re: [AT_Sprint] Re: Enclosure for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 12:54:49 UTC
From: cloud runner
Topic: 8812 Message: 9052

Question: Does rubbing plastic generate static electricty, and if so, is it safe to put the radio in a case of such material???

I would like to find or make a very light weight case in which I might mount a tuner, radio, AND battery, all pre-wired and ready to mount on my SOTA antenna pole.

73 Fred - kt5x

I used a plastic enclssure for MTR. I was looking for a plastic one first but could not find any enclosure suitable for installing my MTR. It is "Takachi SW-95". I am not sure if it is available oveseas.

http://homepage3.nifty.com/VYG06610/A1C/MTR/JA7QIL_MTR_0001.jpg

http://homepage3.nifty.com/VYG06610/A1C/MTR/JA7QIL_MTR_0106.jpg

I have not upgraded the firmware yet. I will try it this weekend.

de ja7qil/Katsu

.

9053. Re: Enclosure for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 17:48:37 UTC
From: Tom
Topic: 8812 Message: 9053

Fred,
I have thought about a somewhat larger enclosure also. In my junk box, I happen to have a tin that originally contained General Foods International French Vanilla Cafe (coffee). It's footprint is just very slightly larger than an Altoids tin, and is slightly more than 3 times the height and volume, i.e. think of 3 Altoid tins stacked on top of one another. One could easily package an MTR, tuner, and battery in one of these - possibly a couple 9v batteries.
I had also thought about putting 2 MTRs back to back in it for a 4 band rig (assuming I might be able to get another MTR sometime in the future).
It would not be a shirt pocket radio any more, but would still be a nice, compact, "packaged station".
Maybe just go to the grocery store with your MTR or the front panel template on a piece of paper, and search the aisles for anything packaged in a suitable tin. Especially around the year end holidays there are a lot of products sold in tins.
Let us know if you find something.
73, Tom N0BS

--- In AT_Sprint@yahoogroups.com, "cloud runner" <just.one.hill@...> wrote:
>
> Question: Does rubbing plastic generate static electricty, and if so, is it safe to put the radio in a case of such material???
>
> I would like to find or make a very light weight case in which I might mount a tuner, radio, AND battery, all pre-wired and ready to mount on my SOTA antenna pole.
>
> 73 Fred - kt5x
>
>
> ---
> I used a plastic enclssure for MTR. I was looking for a plastic one first but could not find any enclosure suitable for installing my MTR. It is "Takachi SW-95". I am not sure if it is available oveseas.
>
> http://homepage3.nifty.com/VYG06610/A1C/MTR/JA7QIL_MTR_0001.jpg
>
> http://homepage3.nifty.com/VYG06610/A1C/MTR/JA7QIL_MTR_0106.jpg
>
> I have not upgraded the firmware yet. I will try it this weekend.
>
> de ja7qil/Katsu
>
>
>
> .
>

9054. Re: [AT_Sprint] Re: Enclosure for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 18:00:55 UTC
From: Gil WA5YKK
Topic: 8812 Message: 9054

Fred;

Fear not, plastic has an extremely low static electricity generation rate, which is why it's used in so many applications. Give any enclosure idea a try, and have fun! (Marine and other extreme environment areas use plastic enclosures all the time)

73's
Gil WA5YKK

Question: Does rubbing plastic generate static electricty, and if so, is it safe to put the radio in a case of such material???
I would like to find or make a very light weight case in which I might mount a tuner, radio, AND battery, all pre-wired and ready to mount on my SOTA antenna pole.
73 Fred - kt5x

9055. Re: [AT_Sprint] Re: Enclosure for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 18:33:57 UTC
From: cloud runner
Topic: 8812 Message: 9055

Excellent, TNX !!!

I have a fishing lure box that is just the right size, but it has sections in it. When I tried to cut them out, the whole box shattered. But the right enclosure will turn up!!!

73, fd

----- Original Message -----
From: Gil WA5YKK
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, May 02, 2012 12:00 PM
Subject: Re: [AT_Sprint] Re: Enclosure for MTR

Fred;

Fear not, plastic has an extremely low static electricity generation rate, which is why it's used in so many applications. Give any enclosure idea a try, and have fun! (Marine and other extreme environment areas use plastic enclosures all the time)

73's
Gil WA5YKK

Question: Does rubbing plastic generate static electricty, and if so, is it safe to put the radio in a case of such material???

I would like to find or make a very light weight case in which I might mount a tuner, radio, AND battery, all pre-wired and ready to mount on my SOTA antenna pole.

73 Fred - kt5x

9056. Re: [AT_Sprint] Re: Enclosure for MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 18:50:42 UTC
From: Gil WA5YKK
Topic: 8812 Message: 9056

Excellent, TNX !!!
I have a fishing lure box that is just the right size, but it has sections in it. When I tried to cut them out, the whole box shattered. But the right enclosure will turn up!!!
73, fd
----- Original Message -----
From: Gil WA5YKK <mailto:WA5YKK@...>
To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint@yahoogroups.com>
Sent: Wednesday, May 02, 2012 12:00 PM
Subject: Re: [AT_Sprint] Re: Enclosure for MTR

Fred;

Depending on the types of soldering tips you have for your iron, and how adept you are with them, give a simple "melt the partition" action a try. I've been there, done that, it saved my bacon and hours of looking for "the right part" many times. (Gotta be self sufficient when you live on a barrier island, hours away from "civilization"!

73's
Gil WA5YKK

9057. ATS-4 Dig1 Mode

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 20:16:21 UTC
From: bob_nelson_k2qpn
Topic: 9057 Message: 9057

I just started to test Dig1 mode on my ATS4 (original). It sends a "p" instead of a space. I see in the forum that other folks were looking for new firmware. Did that ever happen? Can somebody send my the firmware?

73, Bob K2QPN

9058. ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 21:26:13 UTC
From: Steven
Topic: 9058 Message: 9058

I just uploaded the latest firmware for all the ATS-4 series rigs into a folder named "ATS4 firmware".

The ATS4ND.s43 file is for the original ATS-4 and has the psk space fixed so it sends a space instead of a q. It also fixes the problem with the auto shut off not working and the battery voltage not updating in some of the kits where sent out first.

I don't remember if there were any bugs which had to be fixed in the A version.

The ATS-4B firmware fixes the switch lables not showing up on the display when in keyer message entry mode.

Steve KD1JV

9059. Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 21:49:51 UTC
From: n1rx
Topic: 9058 Message: 9059

Thanks, Steve.
I'd like to update the firmware in my first-run ATS-4, using the TI launchpad, as I just did for the MTR. Can I use the same simple 3-wire interface (Test/Reset/GND)? If so, it looks like the first 3 pins on the ATS-4 programming port?
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> I just uploaded the latest firmware for all the ATS-4 series rigs into a folder named "ATS4 firmware".
>
> The ATS4ND.s43 file is for the original ATS-4 and has the psk space fixed so it sends a space instead of a q. It also fixes the problem with the auto shut off not working and the battery voltage not updating in some of the kits where sent out first.
>
> I don't remember if there were any bugs which had to be fixed in the A version.
>
> The ATS-4B firmware fixes the switch lables not showing up on the display when in keyer message entry mode.
>
> Steve KD1JV
>

9060. Re: [AT_Sprint] Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 23:34:00 UTC
From: Steven Weber
Topic: 9058 Message: 9060

No, the earlier F1xxx series chips do not support the 2 wire interface. You have to use the parallel port interface. Steve

> Thanks, Steve.
> I'd like to update the firmware in my first-run ATS-4, using the TI
> launchpad, as I just did for the MTR. Can I use the same simple 3-wire
> interface (Test/Reset/GND)? If so, it looks like the first 3 pins on the
> ATS-4 programming port?
> 73,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>>
>> I just uploaded the latest firmware for all the ATS-4 series rigs into a
>> folder named "ATS4 firmware".
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>> The ATS4ND.s43 file is for the original ATS-4 and has the psk space fixed
>> so it sends a space instead of a q. It also fixes the problem with the
>> auto shut off not working and the battery voltage not updating in some of
>> the kits where sent out first.
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>> I don't remember if there were any bugs which had to be fixed in the A
>> version.
>>
>> The ATS-4B firmware fixes the switch lables not showing up on the display
>> when in keyer message entry mode.
>>
>> Steve KD1JV
>>
>
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> Yahoo! Groups Links
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9061. a pair of new radios??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 23:58:36 UTC
From: Dale Putnam
Topic: 9061 Message: 9061

I'm building a MTR.. and looking at the new TriBander from Doug Hendricks... Both look to be very good additions to your to-go bag. I haven't run the specs on either,but will on the MTR shortly, and the Tri-Bander won't be far behind. Both will work the new event coming up in July too. And Doug will be at Dayton, so you can get the Tri-Bander and get it built before the middle of July. For more fun:Check it out here:For a lot of fun Join the ATS QSO Party!ats-sprint.blogspot.com

--... ...--
Dale - WC7S in Wy

9062. Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 00:27:38 UTC
From: n1rx
Topic: 9058 Message: 9062

too bad... 8-(I'll have to start up the coal-fired computer with the parallel port. If I can find the paper tape with the boot loader on it...

8-)
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> No, the earlier F1xxx series chips do not support the 2 wire interface. You
> have to use the parallel port interface. Steve
>
>
>
> > Thanks, Steve.
> > I'd like to update the firmware in my first-run ATS-4, using the TI
> > launchpad, as I just did for the MTR. Can I use the same simple 3-wire
> > interface (Test/Reset/GND)? If so, it looks like the first 3 pins on the
> > ATS-4 programming port?
> > 73,
> > Bruce, N1RX
> >
> > --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@> wrote:
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> >> folder named "ATS4 firmware".
> >>
> >> The ATS4ND.s43 file is for the original ATS-4 and has the psk space fixed
> >> so it sends a space instead of a q. It also fixes the problem with the
> >> auto shut off not working and the battery voltage not updating in some of
> >> the kits where sent out first.
> >>
> >> I don't remember if there were any bugs which had to be fixed in the A
> >> version.
> >>
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> >> when in keyer message entry mode.
> >>
> >> Steve KD1JV
> >>
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> > Yahoo! Groups Links
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9063. Re: WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 00:57:48 UTC
From: paradoxpete.pdm@gmail.com
Topic: 9001 Message: 9063

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Hey Pete, Tell me, when and what bands do you hear the US... and of course I am prejudiced, so I gotta ask, especially the Western US... ?? It just could be that the committee will take that into consideration for the next one... maybe make it a three piece affair... ?? or make it longer... gotta think that through some.. any thoughts?
>
> --... ...--
> Dale - WC7S in Wy

Dale, it's coming up to 0100z now, and the only band that's open to the US is 40 Metres. Lots of 3 and 4s with big signals but not hearing much West Coast stuff! Of course things are different at the hight of the summer so who knows what will happen. Ill still give it a go if we have propagation.

Pete G4ISJ

9064. RE: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 01:38:55 UTC
From: Dale Putnam
Topic: 9001 Message: 9064

Yes, Pete, mid-summer may be better, but by then, the T-storms are fierce too... In fact, I just left the shack, with three storms within 10mi. They are all moving away.. but the noise is really hard to hear through. If you can hear the East Coast.. it just may be a good thing for you.. It is the extra hop, us Western guys have to do, that gets tuff. We can always hope. I have a pair of 360 foot long edzs that favor EU... maybe that will help too.Would a daytime, on 20 work better?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: paradoxpete.pdm@...
Date: Thu, 3 May 2012 00:57:48 +0000
Subject: [AT_Sprint] Re: WHAAAHOOOO!!!!!

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

>

> Hey Pete, Tell me, when and what bands do you hear the US... and of course I am prejudiced, so I gotta ask, especially the Western US... ?? It just could be that the committee will take that into consideration for the next one... maybe make it a three piece affair... ?? or make it longer... gotta think that through some.. any thoughts?

>

> --... ...--

> Dale - WC7S in Wy

Dale, it's coming up to 0100z now, and the only band that's open to the US is 40 Metres. Lots of 3 and 4s with big signals but not hearing much West Coast stuff! Of course things are different at the hight of the summer so who knows what will happen. Ill still give it a go if we have propagation.

Pete G4ISJ

9065. AGC performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-02 23:01:17 UTC
From: N1EU
Topic: 9065 Message: 9065

I'd appreciate comments on how well the AGC performs in the ATS-3 and ATS-4. I've been using a KX1 which has been a great little radio but I'm tired of getting my eardrums blasted due to (lack of) AGC action (with RF Gain at maximum).

Thanks & 73,
Barry N1EU

9066. Re: [AT_Sprint] AGC performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 02:18:38 UTC
From: WA0ITP
Topic: 9065 Message: 9066

Pretty well, I find that I use a set of earbuds with a volume control on them. The max level is just a bit too loud for my old ears with earbuds. The volume control isnt needed at all with an external powered speaker.

You might try some of these hard limiters with the KX1 http://www.wa0itp.com/audiolimiter.pdf They're cheap, easy and effective, all good qrp characteristics :o) and they may save your hearing. The 8 ohm output will match the ear buds well enuff.

I love this radio stuff !
72, 73 Terry, WA?ITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "N1EU" <n1eu.barry@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Wednesday, May 02, 2012 6:01 PM
Subject: [AT_Sprint] AGC performance

| I'd appreciate comments on how well the AGC performs in the ATS-3 and ATS-4. I've been using a KX1 which has been a great little radio but I'm tired of getting my eardrums blasted due to (lack of) AGC action (with RF Gain at maximum).
|
| Thanks & 73,
| Barry N1EU
|
|
|
| ---
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| Yahoo! Groups Links
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9067. Ist Annual NJQRP Skeeter Hunt

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 02:25:40 UTC
From: Larry Makoski
Topic: 9067 Message: 9067

The NJQRP Club is announcing a new summertime operating event - "The Skeeter Hunt". The objective is to get QRPers out of their shacks for the day; and into the fresh air and sunshine, to spread their wings and fill the airwaves with "Skeeters".

While commercial equipment can certainly utilized, bonus multipliers will be awarded for those who personally home brewed their own or kit built their own equipment (equipment not built by the operator would not count as either home brewed or kit built - it would be considered commercial equipment). The inaugural event is to be held on Sunday August 12th. It will be a four hour sprint - from 17:00 UTC to 21:00 UTC (1:00 TO 5:00 PM EDT).

The theme for this year is "My favorite outdoor place". You are encouraged to operate from your favorite outdoor place and tell us about it in your Soapbox comments.

Stations who wish to be designated as "Skeeters" can get a Skeeter number by requesting one by sending an e-mail to w2lj@... Skeeter numbers would be issued from May through the day before the event.

Station Classes and Multipliers
X1 Home stations - commercial equipment
X2 Home stations - home brewed or kit built equipment
X3 Portable station - commercial equipment
X4 Portable station - home brewed or kit built equipment

Portable stations cannot use permanent antennas, i.e you can't work from your backyard, hook up to your dipole or tower and yagi and be considered a portable station. Also, portable stations cannot be connected to the local power grid - alternative energy sources must be used - solar, battery, wind, etc.

Exchange -
Skeeter Stations - RST, S/P/C, Skeeter number
Non-Skeeter Stations - RST, S/P/C, Output power

Mode - CW
Power - 5W max

Scoring -
Working a Skeeter Station - 2 points
Working a non-Skeeter Station - 1 point

Total score equals the number of QSO points times the number of S/P/Cs worked on all bands (stations can be worked on multiple bands for QSO points and S/P/C credit) times the multiplier for station class.

Bonus points - design and home brew a key or paddle specifically for the event and earn an extra 1000 points.

Suggested frequencies:
The QRP "Watering Holes

80 Meters ~ 3.560 MHz
40 Meters ~ 7.040 and 7.030 MHz
20 Meters ~ 14.060 MHz
15 Meters ~ 21.060 MHz
10 Meters ~ 28.060 MHz

These are suggested starting points, of course. Feel free to spread out and give your "Skeeter" wings a chance to do their thing.

Logs, photos and soapbox comments can be sent to w2lj@... no later than 30 days after the event. Certificates will be issued to the top scorers of each category as well as others to be determined.

A table of call signs and issued "Skeeter" numbers will appear on a page at http://w2lj.blogspot.com/.

Hope to hear and work all of you during this new event. Special thanks to the NJQRP club for their sponsorship!

72 de Larry W2LJ
QRP - When you care to send the very least!

9068. Enclosures

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 02:34:48 UTC
From: Skyridr
Topic: 9068 Message: 9068

I am working on a homemade enclosure, but don't have anything perfected yet. However, here are some suggestions. Aluminum sheets are available at Home Depot and Ace Hardware. Door kickboards are somewhat heavier, and you get more metal for the money.
Lay out desired top template, adding space for batteries, tuners, etc. if you wish. Cut a wooden block the exact size of the finished rig. Use this block to construct a practice temmplate out of sturdy paper. Determine how the sides should fold down or overlap.
Trace the outline of the paper template onto the metal, and cut as necessary . Clamp the block in place on the netal, and fold the sides down. A vice helps, a hammer can be used to tap the sides in place.
The trick is to figure out how to fasten the bottom. Am still working on this.
Of course, the necessary holes for the controls must be drilled and filed.
Will post some photos in a couple of weeks if anyone is interested.

Wendell
N7WM
Bozeman, MT

9069. Re: [AT_Sprint] Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 02:59:39 UTC
From: Steven Weber
Topic: 9058 Message: 9069

> too bad... 8-(I'll have to start up the coal-fired computer with the
> parallel port. If I can find the paper tape with the boot loader on it...
>

Good luck ! Steve

9070. Re: [AT_Sprint] AGC performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 03:01:04 UTC
From: cloud runner
Topic: 9065 Message: 9070

Neither radio is really ever loud to my ears, but the AGC in the ATS4 is quite good. When Mike, KE5AKL, was on the next hill during our SOTA Trifecta last week, about one mile away, I tuned him in and he sounded like any other loud station.

73, Fred - kt5x

----- Original Message -----
From: N1EU
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, May 02, 2012 5:01 PM
Subject: [AT_Sprint] AGC performance

I'd appreciate comments on how well the AGC performs in the ATS-3 and ATS-4. I've been using a KX1 which has been a great little radio but I'm tired of getting my eardrums blasted due to (lack of) AGC action (with RF Gain at maximum).

Thanks & 73,
Barry N1EU

9071. Re: [AT_Sprint] Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 04:07:20 UTC
From: Gil WA5YKK
Topic: 9058 Message: 9071

Steve;

Now, you've got me a bit worried, I don't remember if I have anything like a parallel port on any of my machines. I had a fully loaded PC XT clone "many moons ago", took it to storage with a friend in another city, intending to "fake a better motherboard in it", and didn't get around to it before his "I hate all computers" wife had the garage storage area cleaned out - so MY vintage computer went to recycle! Not one word of warning, and it was still a viable machine. Never trust a pal's family, some women have not a hint of what is in their yards and houses!

73's
Gil WA5YKK

On 5/2/2012 9:59 PM, Steven Weber wrote:
>
>
>
> > too bad... 8-(I'll have to start up the coal-fired computer with the
> > parallel port. If I can find the paper tape with the boot loader on
> it...
> >
>
> Good luck ! Steve
>
>

9072. Re: [AT_Sprint] Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 12:28:44 UTC
From: Michael Harnage
Topic: 9058 Message: 9072

All is not lost. You can use a USB port to program the older rigs you just need a USB-JTAG programmer. Available from TI or Olimex for about $150 or so (I think, doing this from memory).

I have only 1 parallel port PC left in the house myself.

-mike/w1mt

Steve;
>
> Now, you've got me a bit worried, I don't remember if I have anything like a parallel port on any of my machines. I had a fully loaded PC XT clone "many moons ago", took it to storage with a friend in another city, intending to "fake a better motherboard in it", and didn't get around to it before his "I hate all computers" wife had the garage storage area cleaned out - so MY vintage computer went to recycle! Not one word of warning, and it was still a viable machine. Never trust a pal's family, some women have not a hint of what is in their yards and houses!
>
>

9073. Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 12:36:10 UTC
From: Vojtech
Topic: 9058 Message: 9073

> All is not lost. You can use a USB port to program the older rigs you just need a USB-JTAG programmer. Available from TI or Olimex for about $150 or so (I think, doing this from memory).

That is quite an investment to program a $250 rig.

Following parallel port emulator will likely work. I was able to use it successfully with a parallel port based vector network analyzer. The emulator is extremely slow compared to a hardware parallel port, but it emulates the port fully.

http://www-user.tu-chemnitz.de/~heha/bastelecke/Rund%20um%20den%20PC/USB2LPT/ul-16.en.htm

Vojtech

9074. Re: [AT_Sprint] Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 12:52:21 UTC
From: Colin Tuckley
Topic: 9058 Message: 9074

Quoting Michael Harnage <w1mt@...>:

> I have only 1 parallel port PC left in the house myself.

Has anyone tried using one of the add-on PCI or PCIe plug-in parallel port interface cards to program the ATS series rigs?

If these work then for a few dollars the problem is solved.

Colin G8TMV

9075. Re: [AT_Sprint] Enclosures

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 16:12:42 UTC
From: peter murphy
Topic: 9068 Message: 9075

Another enclosure idea. Not pocket size but has possibilities for a "station in a box". Take a look at http://radioset-go.com/gallery.htm. W1JSB used a Small Wonders Lab SW20+ and packaged it into a waterproof plastic box available at any WalMart with all sorts of extra goodies, batteries, speaker, audio amp, touch keyer, etc. Sort of a "sandwich style" approach. I would think you could take any of the ATS rigs and be very creative here.

Pete W6WY

--- On Wed, 5/2/12, Skyridr <november7wm@...> wrote:

From: Skyridr <november7wm@...>
Subject: [AT_Sprint] Enclosures
To: AT_Sprint@yahoogroups.com
Date: Wednesday, May 2, 2012, 7:34 PM

I am working on a homemade enclosure, but don't have anything perfected yet. However, here are some suggestions. Aluminum sheets are available at Home Depot and Ace Hardware. Door kickboards are somewhat heavier, and you get more metal for the money.

Lay out desired top template, adding space for batteries, tuners, etc. if you wish. Cut a wooden block the exact size of the finished rig. Use this block to construct a practice temmplate out of sturdy paper. Determine how the sides should fold down or overlap.

Trace the outline of the paper template onto the metal, and cut as necessary . Clamp the block in place on the netal, and fold the sides down. A vice helps, a hammer can be used to tap the sides in place.

The trick is to figure out how to fasten the bottom. Am still working on this.

Of course, the necessary holes for the controls must be drilled and filed.

Will post some photos in a couple of weeks if anyone is interested.

Wendell

N7WM

Bozeman, MT

9076. Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 17:32:50 UTC
From: ve3wmb
Topic: 9058 Message: 9076

I did a quick search on the Digikey website and they carry two different USB->JTAG cables a 3.3v and 5v for $26 each, made by FTDI.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:
>
> All is not lost. You can use a USB port to program the older rigs you just need a USB-JTAG programmer. Available from TI or Olimex for about $150 or so (I think, doing this from memory).
>
> I have only 1 parallel port PC left in the house myself.
>
>
> -mike/w1mt
>
>
>
> Steve;
> >
> > Now, you've got me a bit worried, I don't remember if I have
> anything like a parallel port on any of my machines. I had a fully
> loaded PC XT clone "many moons ago", took it to storage with a
> friend in another city, intending to "fake a better motherboard in
> it", and didn't get around to it before his "I hate all computers"
> wife had the garage storage area cleaned out - so MY vintage
> computer went to recycle! Not one word of warning, and it was still
> a viable machine. Never trust a pal's family, some women have not a
> hint of what is in their yards and houses!
> >
> >
>

9077. Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 17:49:16 UTC
From: n1rx
Topic: 9058 Message: 9077

Beware. I believe you need an MSP430 compatible JTAG device. Not all "JTAG" programmers will work with the TI MSP430. Steve or Mike?
-Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@...> wrote:
>
> I did a quick search on the Digikey website and they carry two different USB->JTAG cables
> a 3.3v and 5v for $26 each, made by FTDI.
>
> Michael VE3WMB
>
> --- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@> wrote:
> >
> > All is not lost. You can use a USB port to program the older rigs you just need a
USB-JTAG programmer. Available from TI or Olimex for about $150 or so (I think, doing this
from memory).
> >
> > I have only 1 parallel port PC left in the house myself.
> >
> >
> > -mike/w1mt
> >
> >
> >
> > Steve;
> > >
> > > Now, you've got me a bit worried, I don't remember if I have
> > anything like a parallel port on any of my machines. I had a fully
> > loaded PC XT clone "many moons ago", took it to storage with a
> > friend in another city, intending to "fake a better motherboard in
> > it", and didn't get around to it before his "I hate all computers"
> > wife had the garage storage area cleaned out - so MY vintage
> > computer went to recycle! Not one word of warning, and it was still
> > a viable machine. Never trust a pal's family, some women have not a
> > hint of what is in their yards and houses!
> > >
> > >
> >
>

9078. MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 18:10:42 UTC
From: Steven Bornstein
Topic: 8670 Message: 9078

Just about finished with my MTR but waiting for the reflashed processor. Has anyone received their reflashed chip? Just bent up a new
enclosure that will give me a little for room than an Altoids box. Photos will follow.
73, Steve K8IDN

9079. Re: [AT_Sprint] Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 18:36:26 UTC
From: Michael Harnage
Topic: 9058 Message: 9079

I believe that is correct, BUT I do not have any hands on experience non-TI equipment, so I can't verify for sure.

-mike/w1mt

Beware. I believe you need an MSP430 compatible JTAG device. Not all "JTAG" programmers will work with the TI MSP430. Steve or Mike?
>-Bruce, N1RX
>
>

9080. Re: [AT_Sprint] MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 19:55:08 UTC
From: Bob Confrey
Topic: 8670 Message: 9080

I have not yet....expect maybe today (in Monroe, GA) Bob...WA1EDJ

On Thu, May 3, 2012 at 2:10 PM, Steven Bornstein <saborns@...> wrote:
> Just about finished with my MTR but waiting for the reflashed processor. Has anyone received their reflashed chip? Just bent up a new
> enclosure that will give me a little for room than an Altoids box. Photos will follow.
> 73, Steve K8IDN
>
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>
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> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

9081. RE: [AT_Sprint] MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-03 20:20:55 UTC
From: William Schmidt
Topic: 8670 Message: 9081

Got it yesterday. I'm sure Steve is working his way through the pileup.
Bill wv1n

To: AT_Sprint@yahoogroups.com
From: bobc784@...
Date: Thu, 3 May 2012 15:55:08 -0400
Subject: Re: [AT_Sprint] MTR

I have not yet....expect maybe today (in Monroe, GA) Bob...WA1EDJ

On Thu, May 3, 2012 at 2:10 PM, Steven Bornstein <saborns@...> wrote:

> Just about finished with my MTR but waiting for the reflashed processor. Has anyone received their reflashed chip? Just bent up a new

> enclosure that will give me a little for room than an Altoids box. Photos will follow.

> 73, Steve K8IDN

>

>

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> ---

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> Yahoo! Groups Links

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9082. Re: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 01:39:03 UTC
From: unused404
Topic: 8670 Message: 9082

Got it today in PA. I think mine went out last week on the 27th so it was about a week round trip. Thanks Steve!

*** Ben

--- In AT_Sprint@yahoogroups.com, "Steven Bornstein" <saborns@...> wrote:
>
> Just about finished with my MTR but waiting for the reflashed processor. Has anyone received their reflashed chip? Just bent up a new
> enclosure that will give me a little for room than an Altoids box. Photos will follow.
> 73, Steve K8IDN
>

9083. RE: [AT_Sprint] Re: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 02:07:17 UTC
From: Rob May
Topic: 8670 Message: 9083

Got mine back today, mailed last Friday, good job Steve and USPS. Where else could you do this for 45 cents each way? Also, I sent Steve a mailing label and a couple of stamps so that he would only be out time and no money.
Rob
NV5E

> To: AT_Sprint@yahoogroups.com
> From: ben@...
> Date: Fri, 4 May 2012 01:39:03 +0000
> Subject: [AT_Sprint] Re: MTR
>
>
>
> Got it today in PA. I think mine went out last week on the 27th so it
> was about a week round trip. Thanks Steve!
>
> *** Ben
>
> --- In AT_Sprint@yahoogroups.com<mailto:AT_Sprint%40yahoogroups.com>,
> "Steven Bornstein" <saborns@...> wrote:
> >
> > Just about finished with my MTR but waiting for the reflashed
> processor. Has anyone received their reflashed chip? Just bent up a new
> > enclosure that will give me a little for room than an Altoids box.
> Photos will follow.
> > 73, Steve K8IDN
> >
>
>
>

9084. Re: [AT_Sprint] a pair of new radios??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 03:52:31 UTC
From: Roland Whitsitt
Topic: 9061 Message: 9084

I just two tri-banders in today! So I can cover all six bands. Just put the first clear coat over the cabinets. I got this instead the MTR to take it easy on my poor eyes. Although if there is another rehash of the ATS4, I'd be very VERY tempted. The ATS3a continues to serve me very well also.
Roland n5vwn

Sent from my iPhone

On May 2, 2012, at 16:58, Dale Putnam <daleputnam@...> wrote:

> I'm building a MTR.. and looking at the new TriBander from Doug Hendricks...
> Both look to be very good additions to your to-go bag. I haven't run the specs on either,
> but will on the MTR shortly, and the Tri-Bander won't be far behind.
> Both will work the new event coming up in July too. And Doug will be at Dayton, so you can get
> the Tri-Bander and get it built before the middle of July.
> For more fun:
> Check it out here:
> For a lot of fun Join the ATS QSO Party!
> ats-sprint.blogspot.com
>
> --... ...-- Dale - WC7S in Wy
>
>
>
> TODAY(Beta) • Powered by Yahoo!
> High-five with hero goes painfully wrong
> Privacy Policy
>
>

9085. MTR Qso

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 04:01:28 UTC
From: Sid Leben
Topic: 9085 Message: 9085

First qso with rig on 40 this evening. I am extremely happy with the MTR.
Thank you Steve for helping me along the way, & I will not be intimidated by SMD any more.
It will take me awhile to understand the nuances of the MTR, i.e. Tuning etc….. I just can't believe what a fantastic rig, great receiver etc. all in my shirt pocket .
Thank you Steve for all you do.

Sid
KC2EE

9086. Re: WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 04:36:22 UTC
From: n8xxham
Topic: 9001 Message: 9086

Hey, Dale:

I don't have any one of those rigs you describe in the rules.

I have the original AT-Sprint, no suffix at all. In fact, I don't think there ever was a AT-Sprint version 1, the original AT-Sprint didn't have a suffix, there's not a suffix in the documentation.

But, I'll be glad to join the fray in July, on 40/30/20 meters, the three bands covered by the rig.

I wonder how many of the 50 or so "original AT-Sprints" can still be found. I bought mine a few years ago from a fellow who had bought it from the original builder. It wasn't in an Altoids Tin - I didn't know enough about the things to feel competent enough to dabble with it so I asked you to put it into a case. It still works quite well, thanks to your magic touch!

72/73 de n8xx Hg

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> http://ats-sprint.blogspot.com/Check this out... !!! On the Saturday evening... this coming July 21 US time,.... but 0000z July 22... zulu time, oh man... oh man... this is going to be so much fun!!We can all get together... and have a sprint. Gather up call signs of many of the folks that have similar radios... of the same family, The ATS family. oh... and you had better watch the exchanges too... because there are some of us that have more than one of these marvelous fantastically fine, and awesomely spectacular...(huh?... oh.. ok).. simply spectac.... (huh?.... oh... ok).... they are daggone good. (There happy now?) So the exchange from the same station could be a 1, 2, 3, 4. Just not at the same time... maybe alternating. All kidding aside, tell your friends, tell your neighbors, and anyone else... and make plans now... Steve KD1JV may be able to get on with us too.. check the rules... there is a bonus for that too. See you in the ATS-SPRINT!! But don't bring your "BIG" rig... that don't don't hunt here!!!! Have a great day!!
>
> --... ..---
> Dale - WC7S in Wy

9087. Re: [AT_Sprint] "Lost the cost"

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 04:54:51 UTC
From: Gil WA5YKK
Topic: 9001 Message: 9087

Dale;

I'm waiting for the bank deposit to show up on my Internet screen, then I can get some $$ off to you..... but as usual, I lost track of where the email is of what you wanted to settle for with the ATS 4 and other work.

Lemme know, I'll get something going your way as soon as these slow machines do their work.

73's,

Gil WA5YKK

9088. Launchpad "heads up"

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 08:40:45 UTC
From: David
Topic: 9088 Message: 9088

Hi All,
just received my TI Launch Pad today to flash my MTR and I noticed the pins are different on the board I have than that which is shown in Steves notes. Steve's Launch Pad has TEST closest to the board edge followed by RST then RXD while mine (which is rev 1.5 vs. Steve's 1.4) has the VCC closest to the edge of the board. i.e. the VCC has been moved to the oposite end of J3.

So to cut to the chase, go by the printed values on your Launch Pad not just by the pictures in Steve's notes. You need signals Test, RST and GND.

Regards, Dave VK2DDJ

9089. RE: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 11:46:46 UTC
From: Dale Putnam
Topic: 9001 Message: 9089

Hey, that's right! And I have one of them too, in a Zamboids tin... And with the Sprint, you are a mult too. At least it is supposed to be.I am toying with, getting each of the AT radios on the air, can't get enough ops to do it.. but one at a time would work... That would be fun too.Kinda like a QP with a roving county.. well.. I'll be a roving AT.. Bet we can have some fun anyway.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: n8xx@...
Date: Fri, 4 May 2012 04:36:22 +0000
Subject: [AT_Sprint] Re: WHAAAHOOOO!!!!!

Hey, Dale:

I don't have any one of those rigs you describe in the rules.

I have the original AT-Sprint, no suffix at all. In fact, I don't think there ever was a AT-Sprint version 1, the original AT-Sprint didn't have a suffix, there's not a suffix in the documentation.

But, I'll be glad to join the fray in July, on 40/30/20 meters, the three bands covered by the rig.

I wonder how many of the 50 or so "original AT-Sprints" can still be found. I bought mine a few years ago from a fellow who had bought it from the original builder. It wasn't in an Altoids Tin - I didn't know enough about the things to feel competent enough to dabble with it so I asked you to put it into a case. It still works quite well, thanks to your magic touch!

72/73 de n8xx Hg

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

>

> http://ats-sprint.blogspot.com/Check this out... !!! On the Saturday evening... this coming July 21 US time,.... but 0000z July 22... zulu time, oh man... oh man... this is going to be so much fun!!We can all get together... and have a sprint. Gather up call signs of many of the folks that have similar radios... of the same family, The ATS family. oh... and you had better watch the exchanges too... because there are some of us that have more than one of these marvelous fantastically fine, and awesomely spectacular...(huh?... oh.. ok).. simply spectac.... (huh?.... oh... ok).... they are daggone good. (There happy now?) So the exchange from the same station could be a 1, 2, 3, 4. Just not at the same time... maybe alternating. All kidding aside, tell your friends, tell your neighbors, and anyone else... and make plans now... Steve KD1JV may be able to get on with us too.. check the

rules... there is a bonus for that too. See you in the ATS-SPRINT!! But don't bring your "BIG" rig... that don't don't hunt here!!!! Have a great day!!

>

> --... ..---

> Dale - WC7S in Wy

9090. ATS series (original, II, III, 3A, 3B, etc.) numbers?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 12:14:29 UTC
From: John Shadle
Topic: 9090 Message: 9090

I was just reading Hank and Dale's mention of the "50 original AT Sprint" radios and was wondering if anyone (Steve, maybe?) has a clue as to how many of each series exist. I'm curious.

Also, do we know how many different designs there were? I know of the original, the II, the III, the 3A, the 3B, the 4, and the 4 (second run--was it called the 4B?). Also, I feel like there may have been two versions or runs of the ATS-3B, also. Is there a history of these rigs anywhere?

I, too, picked up an original AT Sprint in unbuilt condition last summer, right before our move from NC to WI. I haven't had a chance to take solder to it yet, so it's still unbuilt. I didn't realize it was so rare.

Thanks.
-john W4PAH
Madison, WI

9091. RE: [AT_Sprint] "Lost the cost"

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 12:42:05 UTC
From: Dale Putnam
Topic: 9001 Message: 9091

Hi Gil, I went looking for our emails... and that isn't turning out real well, so.. unless something else turns up, how about this..The AT4b, in your hands, and working, would be $325. I'll keep looking for the other work, maybe I'll get lucky.And if it is better for you, you can make partial payments if you want?My paypal is daleputnam@... or you can sure send a check, if you want. Whatever is best for you.

--... ...--
Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: WA5YKK@...
> Date: Thu, 3 May 2012 23:54:51 -0500
> Subject: Re: [AT_Sprint] "Lost the cost"
>
> Dale;
>
> I'm waiting for the bank deposit to show up on my Internet screen,
> then I can get some $$ off to you..... but as usual, I lost track of
> where the email is of what you wanted to settle for with the ATS 4 and
> other work.
>
> Lemme know, I'll get something going your way as soon as these slow
> machines do their work.
>
> 73's,
>
> Gil WA5YKK
>
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> ------------------------------------
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> Yahoo! Groups Links
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9092. Re: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 15:16:31 UTC
From: Michael Harnage
Topic: 9090 Message: 9092

There indeed was a second 3B, the 3B1.

-mike/w1mt

>_____
>
>Also, do we know how many different designs there were? I know of the original, the II, the III, the 3A, the 3B, the 4, and the 4 (second run--was it called the 4B?). Also, I feel like there may have been two versions or runs of the ATS-3B, also. Is there a history of these rigs anywhere?
>
>

9093. RE: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 15:36:12 UTC
From: Dale Putnam
Topic: 9090 Message: 9093

I believe the intent for the QP is to honor each of the versions, but the easiest way to accomplish that is to list the models, not the verisons.Say you use a 3a ... that counts to those that need it as an ATS3... same for a 3b and a 3b.1 .. and the ATS4, that includes all versions and runs of theAT4. No need to complicate it.
But there is an interesting side note here too.. that is exactly how many of the Original Sprints exist? And where are they? How many were kitted? Then the rest of the family is begging the same honor on the tree. (family tree, that is)Does anyone have one of each?I'll be watching too, to see if anyone can get a Q with each one? Anyone up for a big MULTI-OP each position with a different member of the family?Don't forget there is interest in the other radios too.. bring them on, might be enough of them to makechanges in the mult lineup for next time... like the new TRI-BANDER.. or the PFR-3... both belong to Steve's family of design. A Saturday in July... this is going to be very much fun.
--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: w1mt@...
Date: Fri, 4 May 2012 08:16:31 -0700
Subject: Re: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?

There indeed was a second 3B, the 3B1.
-mike/w1mt

Also, do we know how many different designs there were? I know of the original, the II, the III, the 3A, the 3B, the 4, and the 4 (second run--was it called the 4B?). Also, I feel like there may have been two versions or runs of the ATS-3B, also. Is there a history of these rigs
anywhere?

9094. Re: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 16:18:58 UTC
From: Charles Nolin
Topic: 9090 Message: 9094

Hi Dale,

You were asking about the original Sprint.
I have my original first Sprint, that I built, plus some.

Chuck Nolin
WA6LTV/4

From: Dale Putnam <daleputnam@...>
To: AT Sprint <at_sprint@yahoogroups.com>
Sent: Friday, May 4, 2012 11:36 AM
Subject: RE: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?

I believe the intent for the QP is to honor each of the versions, but the easiest way to accomplish that is to list the models, not the verisons.
Say you use a 3a ... that counts to those that need it as an ATS3... same for a 3b and a 3b.1 .. and the ATS4, that includes all versions and runs of the
AT4. No need to complicate it.
But there is an interesting side note here too.. that is exactly how many of the Original Sprints exist? And where are they?
How many were kitted?
Then the rest of the family is begging the same honor on the tree. (family tree, that is)
Does anyone have one of each?
I'll be watching too, to see if anyone can get a Q with each one?
Anyone up for a big MULTI-OP each position with a different member of the family?
Don't forget there is interest in the other radios too.. bring them on, might be enough of them to make
changes in the mult lineup for next time... like the new TRI-BANDER.. or the PFR-3... both belong to Steve's family of design.

A Saturday in July... this is going to be very much fun.

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: w1mt@...
Date: Fri, 4 May 2012 08:16:31 -0700
Subject: Re: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?

There indeed was a second 3B, the 3B1.

-mike/w1mt

>Also, do we know how many different designs there were? I know of the original, the II, the III, the 3A, the 3B, the 4, and the 4 (second run--was it called the 4B?). Also, I feel like there may have been two versions or runs of the ATS-3B, also. Is there a history of these rigs anywhere?

>
>

9095. Re: ATS-4 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 16:59:00 UTC
From: ve3wmb
Topic: 9058 Message: 9095

Why am I not surprised ? ;-) Oh well !

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
>
> Beware. I believe you need an MSP430 compatible JTAG device. Not all "JTAG" programmers will work with the TI MSP430. Steve or Mike?
> -Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@> wrote:
> >
> > I did a quick search on the Digikey website and they carry two different USB->JTAG cables
> > a 3.3v and 5v for $26 each, made by FTDI.
> >
> > Michael VE3WMB
> >

9096. RE: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 17:28:25 UTC
From: kd5kxf@classicnet.net
Topic: 9090 Message: 9096

I would be real interested in total #s myself. I wonder how how many of the PFR-3's are out there? Mine gets thrown in the truck console quite a bit. I probably have more qrp field time with that one radio just from hunting and fishing trips. It is certainly not the smallest radio but with batteries, tuner and key on board it makes for a very convenient setup. I might just repackage my III into something like that. I run the audio into the truck stereo aux input and a hamstick on the truck and good for /m too. During the afternoon lull of dove hunting, it is nice to park under a shade tree and nap and play radio. Hoping for a MTR to MTR qso before the contest.

Mike KD5KXF
---- Dale Putnam <daleputnam@...> wrote:
>
> I believe the intent for the QP is to honor each of the versions, but the easiest way to accomplish that is to list the models, not the verisons.Say you use a 3a ... that counts to those that need it as an ATS3... same for a 3b and a 3b.1 .. and the ATS4, that includes all versions and runs of theAT4. No need to complicate it.
> But there is an interesting side note here too.. that is exactly how many of the Original Sprints exist? And where are they? How many were kitted? Then the rest of the family is begging the same honor on the tree. (family tree, that is)Does anyone have one of each?I'll be watching too, to see if anyone can get a Q with each one? Anyone up for a big MULTI-OP each position with a different member of the family?Don't forget there is interest in the other radios too.. bring them on, might be enough of them to makechanges in the mult lineup for next time... like the new TRI-BANDER.. or the PFR-3... both belong to Steve's family of design. A Saturday in July... this is going to be very much fun.
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: w1mt@...
> Date: Fri, 4 May 2012 08:16:31 -0700
> Subject: Re: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?
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> There indeed was a second 3B, the 3B1.
> -mike/w1mt
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> anywhere?
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9097. MTR processor reprogrammed

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 19:26:51 UTC
From: wrmoore47
Topic: 9097 Message: 9097

Received my reprogrammed MTR processor today in Huntsville, AL, after mailing it to Steve exactly one week ago.

Thanks Steve! Now to the build!!

73,
Randy, KS4L

9098. Need HELP with ATS4 update reflash!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 19:28:58 UTC
From: mpupeza
Topic: 9098 Message: 9098

HELP!
I finally think I have the ATS4ND.s43 loaded into the IAR program after much futzing trying to load it. Steve's step-by-step doesn't work as I have no 'common' files and his references are to the ATS3B files. My ATS4 CD has only the .s43 file.
After getting my workspace configured with the blue comments and the black software instructions, I try to go to the debug routine with my cable plugged into the programming port, no power to the radio (I assume this as it's never mentioned), and the other to the parallel port.
DING! "The configuration does not have a debuggable output. (a debug-only project should have exactly one debuggable file as a root level project member.)"
That's what it tells me!
What is wrong?
Can someone walk me through the sequence from the point where I have the IAR program started on the screen?
Thanks
Mike VE3EQP
(705) 549-3220

9099. Re: [AT_Sprint] Need HELP with ATS4 update reflash!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 21:03:40 UTC
From: Steven Weber
Topic: 9098 Message: 9099

Okay, first you have to set up the options correctly.

1. On the tool bar, click "Project", then "Options"
2. In the pop up window, under "General" select the proper device, which for the ATS4 would be MSP430F1132A
3. Click on "Debugger: in the catogory list.
4. Make sure "FET debugger" is selected.
5. Click on FET debugger in the catogory list
6. In "Connection" select LPT-TI

Oh, power must be supplied to the rig, the parallel port does not supply power to the rig.

That should do it.

Steve KD1JV

> HELP!
> I finally think I have the ATS4ND.s43 loaded into the IAR program after
> much futzing trying to load it. Steve's step-by-step doesn't work as I
> have no 'common' files and his references are to the ATS3B files. My ATS4
> CD has only the .s43 file.
> After getting my workspace configured with the blue comments and the black
> software instructions, I try to go to the debug routine with my cable
> plugged into the programming port, no power to the radio (I assume this as
> it's never mentioned), and the other to the parallel port.
> DING! "The configuration does not have a debuggable output. (a debug-only
> project should have exactly one debuggable file as a root level project
> member.)"
> That's what it tells me!
> What is wrong?
> Can someone walk me through the sequence from the point where I have the
> IAR program started on the screen?
> Thanks
> Mike VE3EQP
> (705) 549-3220
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

9100. Re: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 21:08:32 UTC
From: Steven Weber
Topic: 9090 Message: 9100

```
ATS (original) 50 units
ATS-2 ~ 100 units
ATS-3 ~ 100 units
ATS-3A ~ 100 Units
ATS-3B ~ 400 units (200 3B.1)
ATS-4 ~ 100 units
ATS-4A ~ 100 units
ATS-4B ~ 150 units
MTR ~ 150 units

------------------------------
Total 1250 units sold ???? actually built ????
```

9101. It's Here

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 21:47:37 UTC
From: Jay
Topic: 9101 Message: 9101

My 80/40/20 TRI-BANDER arrived in the mail today and I am quite excited about it. I am in the middle of building a couple of projects for this radio that will allow me to operate portable. As soon as they are finished, I hope to bring the TRI-BANDER to life.

It might not be an ATS family radio but it will be in the ATS sprint to hand out points, if nothing else.

Thanks to Steve and Hendricks Kits.

Jay
AJ4AY
Mobile, AL

9102. Re: Need HELP with ATS4 update reflash!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 23:05:02 UTC
From: mpupeza
Topic: 9098 Message: 9102

Steve;
No Go! Exactly the same error message!
Thanks though for the response.
I know the LPT port works as I had my printer working on it and the cable is definitely wired correctly. I had missed specifying the options previously so I thought that I had it.
My processor is a MSP430F1232 so I used that setting but still NADA!
Has anyone actually tried the software lately? The error message makes me think there's more than one program in the package!
If any successful 'reflashers' out there can help, please do!
Mike VE3EQP
(705) 549-3220

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
>
> Okay, first you have to set up the options correctly.
>
> 1. On the tool bar, click "Project", then "Options"
> 2. In the pop up window, under "General" select the proper device, which for
> the ATS4 would be MSP430F1132A
> 3. Click on "Debugger: in the catogory list.
> 4. Make sure "FET debugger" is selected.
> 5. Click on FET debugger in the catogory list
> 6. In "Connection" select LPT-TI
>
>
> Oh, power must be supplied to the rig, the parallel port does not supply
> power to the rig.
>
> That should do it.
>
> Steve KD1JV
>
>
>
>
> > HELP!
> > I finally think I have the ATS4ND.s43 loaded into the IAR program after
> > much futzing trying to load it. Steve's step-by-step doesn't work as I
> > have no 'common' files and his references are to the ATS3B files. My ATS4
> > CD has only the .s43 file.
> > After getting my workspace configured with the blue comments and the black
> > software instructions, I try to go to the debug routine with my cable
> > plugged into the programming port, no power to the radio (I assume this as
> > it's never mentioned), and the other to the parallel port.

> > DING! "The configuration does not have a debuggable output. (a debug-only
> > project should have exactly one debuggable file as a root level project
> > member.)"
> > That's what it tells me!
> > What is wrong?
> > Can someone walk me through the sequence from the point where I have the
> > IAR program started on the screen?
> > Thanks
> > Mike VE3EQP
> > (705) 549-3220
> >
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> > ---
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> > Yahoo! Groups Links
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9103. Re: [AT_Sprint] Re: Need HELP with ATS4 update reflash!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-04 23:23:17 UTC
From: John Evans - N0HJ
Topic: 9098 Message: 9103

There are, or could be, other settings in the bios for the parallel port. If you can get to them at bootup, see if you can change it from something that looks like SPP to ECP. I think you may need enhanced mode to do the programming.

72 - john - n0hj

On 5/4/2012 5:05 PM, mpupeza wrote:
>
> Steve;
> No Go! Exactly the same error message!
> Thanks though for the response.
> I know the LPT port works as I had my printer working on it and the
> cable is definitely wired correctly. I had missed specifying the
> options previously so I thought that I had it.
> My processor is a MSP430F1232 so I used that setting but still NADA!
> Has anyone actually tried the software lately? The error message makes
> me think there's more than one program in the package!
> If any successful 'reflashers' out there can help, please do!
> Mike VE3EQP
> (705) 549-3220
>

9104. RE: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 00:23:14 UTC
From: Dale Putnam
Topic: 9090 Message: 9104

That is awesome Steve, thank you for the information. Considering that each is state of the art, and challanges the "big" rigs in performance,that is a huge statement of your design ability. Thank you for your passion for our source of fun.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Fri, 4 May 2012 17:08:32 -0400
Subject: Re: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?

ATS (original) 50 units
ATS-2 ~ 100 units
ATS-3 ~ 100 units
ATS-3A ~ 100 Units
ATS-3B ~ 400 units (200 3B.1)
ATS-4 ~ 100 units
ATS-4A ~ 100 units
ATS-4B ~ 150 units
MTR ~ 150 units

Total 1250 units sold ???? actually built
????

9105. Processor

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 01:07:28 UTC
From: Johnny Matlock
Topic: 9105 Message: 9105

```
Mine flew back in by mail today!
Also about a week turn around.
Thanks Steve
72
Johnny AC0BQ
```

9106. Re: Need HELP with ATS4 update reflash!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 01:10:13 UTC
From: mpupeza
Topic: 9098 Message: 9106

John & Steve, and all;
Still no go! The BIOS of my Dell Latitude laptop shows the parallel port is set to ECP already.
I tried downloading a new evaluation copy of the IAR embedded workshop and it gave me the same error.
I tried loading the old .s43 file from my ATS4 CD and it also did the same, so, obviously, I am doing something wrong or have a hardware problem.
I've gone through my cable again, many times, even metering it out - it's good.
Does anyone know what the error message means?
Thanks,
Mike VE3EQP

--- In AT_Sprint@yahoogroups.com, John Evans - N0HJ <jaevans@...> wrote:
>
> There are, or could be, other settings in the bios for the parallel
> port. If you can get to them at bootup, see if you can change it from
> something that looks like SPP to ECP. I think you may need enhanced
> mode to do the programming.
>
> 72 - john - n0hj
>
> On 5/4/2012 5:05 PM, mpupeza wrote:
> >
> > Steve;
> > No Go! Exactly the same error message!
> > Thanks though for the response.
> > I know the LPT port works as I had my printer working on it and the
> > cable is definitely wired correctly. I had missed specifying the
> > options previously so I thought that I had it.
> > My processor is a MSP430F1232 so I used that setting but still NADA!
> > Has anyone actually tried the software lately? The error message makes
> > me think there's more than one program in the package!
> > If any successful 'reflashers' out there can help, please do!
> > Mike VE3EQP
> > (705) 549-3220
> >
>

9107. Re: [AT_Sprint] Re: Need HELP with ATS4 update reflash!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 01:51:47 UTC
From: Steven Weber
Topic: 9098 Message: 9107

Maybe you need to start from scratch. This the procedure for the lastest IAR version. Earlier ones use pretty much the same sets and settings.

File > NEW > Workspace (workspace clears)

Project > Create new project > click OK. --- enter a name for the project as the "save as" file name (ATS4something) > click Save

Right click on project name in "Files" window, in pop up, hover over "Add" then click "Add files" in pop up, select ATS4ND.s43 as the file to add and save.

The source file will now be loaded into the work space window.

Tool bar: Project > Options

General Options ----- Device >select MSP430F1232
Linker ----------Check "Override default program entry" ---check "defined by application"
Debugger ----------select "FET debugger"
FET Debugger --------select TI LPT

Everything should be now set up. You should be able to click the "assemble" icon in the tool bar and have no error messages. Then you can click on the "download and debug" icon and it should download.

At least it did for me, starting as a blank workspace.

Good luck!
Steve KD1JV

9108. RE: [AT_Sprint] ATS series (original, II, III, 3A, 3B, etc.) numbers?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 02:09:33 UTC
From: Milton A Riutort
Topic: 9090 Message: 9108

This is very interest and pleasant. I start my membership to the group with the ATS3b.1. It was my first surface mount complete radio kit. I never believe that a radio than small can perform as well as it does and after few years occasionally operating it, I still get very impress of how nice it works. It is not just a good performer, it is also a fatal attraction for others that never see HF radios like this. Some people doesn't believe it is a real HF multi band pocket size radio.

In one way or another all of them are gems, rare precious HF little radio gems.

Proud owner of ATS3b.1, ATS4, and MTR (more than radio) gems.

Best 73,
Milton A Riutort
NP4KT

9109. Re: [AT_Sprint] It's Here

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 02:25:54 UTC
From: Roland Whitsitt
Topic: 9101 Message: 9109

I bought two! For all six bands.
73's n5vwn Roland

Sent from my iPhone

On May 4, 2012, at 14:47, "Jay" <aj4ay@...> wrote:

> My 80/40/20 TRI-BANDER arrived in the mail today and I am quite excited about
> it. I am in the middle of building a couple of projects for this radio that
> will allow me to operate portable. As soon as they are finished, I hope to
> bring the TRI-BANDER to life.
>
> It might not be an ATS family radio but it will be in the ATS sprint to hand out
> points, if nothing else.
>
> Thanks to Steve and Hendricks Kits.
>
> Jay
> AJ4AY
> Mobile, AL
>
>
>
>
> TODAY(Beta) • Powered by Yahoo!
> Why buying DVDs still makes sense
> Privacy Policy
>
>

9110. Hendricks Sota Tuner Change

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 05:26:17 UTC
From: KI6DS
Topic: 9110 Message: 9110

The manual for the Sota Tuner has been changed. We have changed the turns ration of the toroid from 28 turns total with a tap at 4 turns to 23 turns total with a tap at 3 turns. The reason? A half wave is a high impedance antenna with an impedance of about 3000 ohms. To match it, you need a transformer that will take 3000 ohms down to 50 ohms. I had a nice email exchange with Fred, and discovered that our turns ratio was not ideal, and could be improved.

I did some research and found the following.

For a transformer, the impedance Z(final) = N^2 Z (initial) where N is the turns ratio of the windings. With our original ratio of 28 to 4, we had a turns ratio of 7 (28/4). Plugging in the numbers gets the following:

Z(f) = 7^2 x 50
= 49 x 50
= 2450
Z(f) = 2450 ohms

This means that while our tuner would work, it was not optimum for a half wave antenna. Plugging in the new 23/3 ratio results in the following:

Z(f) = (23/3)^2 x 50
= (7.6667)^2 x 50
= 58.7778 x 50
Z(f) = 2939 ohms

which is a lot closer to the theoretical value of a half wave antenna which is about 3000 ohms. So, we have changed our manual to reflect that change.

Note that the impedance of an antenna depends on a lot of variables; height above ground, configuration, soil composition, and on and on. The easiest way to mod your tuner if already built is to take 4 turns off the tops of the coil and 1 turn off the bottom.

The manual for the Sota Tuner is online at www.qrpkits.com. Scroll down until you see the picture of the Sota Tuner. Click on it and it will take you to the Sota page. Then click on the manual to download. 72, Doug, KI6DS

9111. Re: [AT_Sprint] Re: Need HELP with ATS4 update reflash!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 07:31:47 UTC
From: Colin Tuckley
Topic: 9098 Message: 9111

On 05/05/12 02:10, mpupeza wrote:

> Still no go! The BIOS of my Dell Latitude laptop shows the parallel port
> is set to ECP already.

The problem is almost certainly the fact that you are using a laptop. I had exactly the same problem with my Thinkpad, nothing I tried would work, when I switched to an old desktop PC with Win-XP it worked as advertised.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

In mathematics or physics, simplifying can be complicated.

9112. Re: [AT_Sprint] It's Here

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 16:10:56 UTC
From: Jay
Topic: 9101 Message: 9112

Fellow builders and friends,

I have picked up the SLT+, the TRI-BANDER, and a project box from Hendricks QRP. All 3 have, what I call, a burnished aluminum case, and quite good looking in my opinion.

How do you handle these cases to keep them looking good? All 3 of my cases will be used together as part of a "throw it in the backpack and go" to the field operation.

Would it be better to put Krylon "CLEAR" on the boxes before applying the decals and then a second coat of the CLEAR?

Or would it be better to apply the decals and just CLEAR coat everything?

Any opinions?

Jay
AJ4AY
Mobile, AL

9113. Re: [AT_Sprint] It's Here

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 16:16:31 UTC
From: Hank Greeb
Topic: 9101 Message: 9113

I generally scratch them with random scratches, so that any new
scratches aren't noticed.

Others will paint them with various colours - ask them how to make sure
paint adheres to polished aluminium. A good Model Aeroplayne or
Automobubble paint job usually takes a beating and keeps on ticking.

72/73 de n8xx Hg

On 5/5/2012 12:10 PM, Jay wrote:
> Fellow builders and friends,
>
> I have picked up the SLT+, the TRI-BANDER, and a project box from Hendricks QRP. All 3 have, what I call, a burnished aluminum case, and quite good looking in my opinion.
>
> How do you handle these cases to keep them looking good? All 3 of my cases will be used together as part of a "throw it in the backpack and go" to the field operation.
>
> Would it be better to put Krylon "CLEAR" on the boxes before applying the decals and then a second coat of the CLEAR?
>
> Or would it be better to apply the decals and just CLEAR coat everything?
>
> Any opinions?
>
> Jay
> AJ4AY
> Mobile, AL

9114. Tri-bander painting

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 16:39:10 UTC
From: Roland Whitsitt
Topic: 9101 Message: 9114

I spayed a lite two brief pass on the pieces. Let dry. Then got the decals on. Let dry for hours. Then another coat of krylon clear matte. Dry. Another coat. My coats were too lite and one decal wanted to peal. I think it might have had a fold. I put two more lite coats. Oh well, at least no runs!
BTW, home depot and lowes don't carry krylon. Got it at walmart.
Almost done! Started to make silly mistakes so I stopped for now.
Tired but really excited!
Roland n5vwn
Thank you smd group for being tolerant of my 'thru-hole' project. Guess I'm not a purist.
Hihi
Roland n5vwn
Sent from my iPhone

On May 5, 2012, at 9:10, "Jay" <aj4ay@...> wrote:

> Fellow builders and friends,
>
> I have picked up the SLT+, the TRI-BANDER, and a project box from Hendricks QRP.
> All 3 have, what I call, a burnished aluminum case, and quite good looking in my
> opinion.
>
> How do you handle these cases to keep them looking good? All 3 of my cases will
> be used together as part of a "throw it in the backpack and go" to the field
> operation.
>
> Would it be better to put Krylon "CLEAR" on the boxes before applying the decals
> and then a second coat of the CLEAR?
>
> Or would it be better to apply the decals and just CLEAR coat everything?
>
> Any opinions?
>
> Jay
> AJ4AY
> Mobile, AL
>
>
>
>
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>

9115. Re: It's Here

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 16:52:09 UTC
From: Tom
Topic: 9101 Message: 9115

Jay,
The SLT+ case is really nice, but I would have gladly paid more if it were silk screened instead of using decals.
I coated mine with Krylon clear satin to protect the decals, and was not happy with the result. The paint on top of the decal material has more gloss than the areas of bare aluminum - they turned "frosty", noticeably different from the decals. It is only noticeable at certain angles of light, but . . . not a perfect result. Too late - nothing I can do about it now. Using a clear gloss might work better.
If you want to experiment, I would recommend putting some of the spare decals on the inside of the case and test spraying over them - let it sit for a few days, and see what happens.
Good luck - let us know if you find something that works well.
If I had it to do over again, I think I would make my own cover art, laminate it in plastic, and attach it with spray adhesive of small screws. That is what I did with my MTR and I think it turned out very well. Then, if I want to change the cover look in the future, or it gets too scratched up to, it is easy to do.
73, Tom N0BS

--- In AT_Sprint@yahoogroups.com, "Jay" <aj4ay@...> wrote:
>
> Fellow builders and friends,
>
> I have picked up the SLT+, the TRI-BANDER, and a project box from Hendricks QRP.
> All 3 have, what I call, a burnished aluminum case, and quite good looking in my
> opinion.
>
> How do you handle these cases to keep them looking good? All 3 of my cases will
> be used together as part of a "throw it in the backpack and go" to the field
> operation.
>
> Would it be better to put Krylon "CLEAR" on the boxes before applying the decals
> and then a second coat of the CLEAR?
>
> Or would it be better to apply the decals and just CLEAR coat everything?
>
> Any opinions?
>
> Jay
> AJ4AY
> Mobile, AL
>

9116. Re: Need HELP with ATS4 update reflash!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 20:14:49 UTC
From: mpupeza
Topic: 9098 Message: 9116

Steps forward but no Cigar - yet!

Terminology, or word choice is killing me. Steve says to hit the 'assemble' icon - nothing there. It's the build button. I loaded the .s43 file using the File - open, instead of the Project - add file because my .s43 didn't show up, until you change the drop-down to 'assembler files'. Whew, reminds me of a baking class when the instructor said to brush the loaf with an egg wash! Huh!
Anyhow - I've got the system ready to download finally. I get the "Initializing Hardware" then the Emulator says 'No device found or device disconnected'. I've tried this in both my Dell Latitude laptop and my IBM Thinkpad 600X both running XP, with identical results.
I'm assuming, now, that the resistor values may be wrong for these LPT ports. Any suggestions of what resistors to try instead, or of a interface change. I'm wired with the 5 -220 ohms to pins 1, 2, 3, 4, 16, with ground 18-25 and pin 12 of DB25 straight through.
I'm getting there but still need Help.
Thanks guys, I hope you're having better luck.

Mike VE3EQP - Surprisingly, one who has worked hardware and programmed stuff from 8080, 1802 Cosmac, 6502 Commodore, 6800 series, PDP8, PDP11, Interdata mod 50, 70, and more, and STILL has trouble!

9117. Re: [AT_Sprint] Tri-bander painting

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 18:07:56 UTC
From: kd5kxf@classicnet.net
Topic: 9101 Message: 9117

A few coats of paint really helps with those decals. I will be interested to hear what you think about this rig once you get it on the air. Nice to have a tuning knob, but I have had the PFR 3 out so many times that I am used to Ats or pfr3 tuning these days. I have the discontinued dualbander and the knob is nice to use.
---- Roland Whitsitt <n5vwn@...> wrote:
> I spayed a lite two brief pass on the pieces. Let dry. Then got the decals on. Let dry for hours. Then another coat of krylon clear matte. Dry. Another coat. My coats were too lite and one decal wanted to peal. I think it might have had a fold. I put two more lite coats. Oh well, at least no runs!
> BTW, home depot and lowes don't carry krylon. Got it at walmart.
> Almost done! Started to make silly mistakes so I stopped for now.
> Tired but really excited!
> Roland n5vwn
> Thank you smd group for being tolerant of my 'thru-hole' project. Guess I'm not a purist. Hihi
> Roland n5vwn
> Sent from my iPhone
>
> On May 5, 2012, at 9:10, "Jay" <aj4ay@...> wrote:
>
> > Fellow builders and friends,
> >
> > I have picked up the SLT+, the TRI-BANDER, and a project box from Hendricks QRP.
> > All 3 have, what I call, a burnished aluminum case, and quite good looking in my
> > opinion.
> >
> > How do you handle these cases to keep them looking good? All 3 of my cases will
> > be used together as part of a "throw it in the backpack and go" to the field
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> > Jay
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9118. re: [AT_Sprint] Re: It's Here

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-05 23:37:01 UTC
From: Doug Hendricks
Topic: 9101 Message: 9118

Jay, please read the decal application material on my website. And it should be in the manual. Doug

-------- Original Message --------
> From: "Tom" <tmoll150@...>
> Sent: Saturday, May 05, 2012 9:59 AM
> To: AT_Sprint@yahoogroups.com
> Subject: [AT_Sprint] Re: It's Here
>
> Jay,
> The SLT+ case is really nice, but I would have gladly paid more if it were silk screened instead of using decals.
> I coated mine with Krylon clear satin to protect the decals, and was not happy with the result. The paint on top of the decal material has more gloss than the areas of bare aluminum - they turned "frosty", noticeably different from the decals. It is only noticeable at certain angles of light, but . . . not a perfect result. Too late - nothing I can do about it now. Using a clear gloss might work better.
> If you want to experiment, I would recommend putting some of the spare decals on the inside of the case and test spraying over them - let it sit for a few days, and see what happens.
> Good luck - let us know if you find something that works well.
> If I had it to do over again, I think I would make my own cover art, laminate it in plastic, and attach it with spray adhesive of small screws. That is what I did with my MTR and I think it turned out very well. Then, if I want to change the cover look in the future, or it gets too scratched up to, it is easy to do.
> 73, Tom N0BS
>
> --- In AT_Sprint@yahoogroups.com, "Jay" <aj4ay@...> wrote:
> >
> > Fellow builders and friends,
> >
> > I have picked up the SLT+, the TRI-BANDER, and a project box from Hendricks QRP.
> > All 3 have, what I call, a burnished aluminum case, and quite good looking in my
> > opinion.
> >
> > How do you handle these cases to keep them looking good? All 3 of my cases will
> > be used together as part of a "throw it in the backpack and go" to the field
> > operation.
> >

> > Would it be better to put Krylon "CLEAR" on the boxes before applying the decals
> > and then a second coat of the CLEAR?
> >
> > Or would it be better to apply the decals and just CLEAR coat everything?
> >
> > Any opinions?
> >
> > Jay
> > AJ4AY
> > Mobile, AL
> >

9119. MTR exercize

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-06 03:34:12 UTC
From: Tom
Topic: 9119 Message: 9119

Got my reflashed MTR back from Steve and finished off packaging it up. What a great night to really put it through its paces with all the contests going on at the same time (NEQP, INQP, 7QP, and ARI DX contest). 40m is wall to wall with strong signals, and the MTR performs marvelously under these conditions. Sensitivity along with great selectivity - what more could you ask for? I have to say I am really impressed how it handles the strong adjacent signals - really a joy to operate. I was able to S&P up and down the band and work almost everything I called, including 10 DX entities, best of which was 5,297 miles (VA to Ukraine) with 4w output to a dipole. Also, all 4 corners of the USA and many in between. Also used a 9v battery of questionable quality for a while and made a dozen stateside contacts at 1w out.
What a blast - NICE radio! Can't wait to get it out in the field now.
Thanks Steve,
Tom N0BS

9120. Re: [AT_Sprint] MTR exercize

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-06 08:11:21 UTC
From: Roland Whitsitt
Topic: 9119 Message: 9120

Tom, Really enjoyed reading about that. Sounds like fun!
Roland Stockton, Ca. n5vwn

Sent from my iPhone

On May 5, 2012, at 20:34, "Tom" <tmoll150@gmail.com> wrote:

> Got my reflashed MTR back from Steve and finished off packaging it up. What a great night to really put it through its paces with all the contests going on at the same time (NEQP, INQP, 7QP, and ARI DX contest). 40m is wall to wall with strong signals, and the MTR performs marvelously under these conditions. Sensitivity along with great selectivity - what more could you ask for? I have to say I am really impressed how it handles the strong adjacent signals - really a joy to operate. I was able to S&P up and down the band and work almost everything I called, including 10 DX entities, best of which was 5,297 miles (VA to Ukraine) with 4w output to a dipole. Also, all 4 corners of the USA and many in between.
> Also used a 9v battery of questionable quality for a while and made a dozen stateside contacts at 1w out.
> What a blast - NICE radio! Can't wait to get it out in the field now.
> Thanks Steve,
> Tom N0BS
>
>
>
>
> TODAY(Beta) • Powered by Yahoo!
> Hottest bathing suit trends this season
> Privacy Policy
>
>

9121. NS7R CQ NS7R CQ

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-06 18:28:55 UTC
From: Dale Putnam
Topic: 9121 Message: 9121

Hey Steve, Lost your email address,

--... ...--
Dale - WC7S in Wy

9122. Re: [AT_Sprint] NS7R CQ NS7R CQ

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-06 18:38:02 UTC
From: Wilford D Lindsey
Topic: 9121 Message: 9122

Hey Dale:

Here it is quick =

<steve.kd1jv@...>

GL and

73,
Doc/K0evz

Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: Dale Putnam <daleputnam@...>
Sender: AT_Sprint@...m
Date: Sun, 6 May 2012 12:28:55
To: AT Sprint<at_sprint@yahoogroups.com>
Reply-To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] NS7R CQ NS7R CQ

Hey Steve, Lost your email address,

--... ...--
Dale - WC7S in Wy

9123. Re: Need HELP with ATS4 update reflash!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-06 18:49:16 UTC
From: mpupeza
Topic: 9098 Message: 9123

I put a 220 ohm resistor in the line from DB25 pin 12 to the processor pin 28 - missing in drawing in manual, but described in the written explanation for the ATS3B.
I now get 'Failed to get target information'!
Did my previous wiring zap that pin 28? The ATS4 still runs but I haven't checked all functions. It appears to run OK in RX and TX and I can hear ticks when I run the update debugger, but no update.
I've now tried 3 different laptops in both parallel bi-directional and ECP modes. I have a buddy with a desktop that he'll get running and I'll give it one more try.
Unless that works, I'll hope for a new preprogrammed chip or live with the p for space PSK31 and the non-updating voltage readout (and any other glitches Steve fixed!).
Any other ideas welcomed.
Thanks
Mike VE3EQP .....>
(frustrated!)

--- In AT_Sprint@yahoogroups.com, "mpupeza" <mpupeza@...> wrote:
>
> Steps forward but no Cigar - yet!
>
> Terminology, or word choice is killing me. Steve says to hit the 'assemble' icon - nothing there. It's the build button. I loaded the .s43 file using the File - open, instead of the Project - add file because my .s43 didn't show up, until you change the drop-down to 'assembler files'. Whew, reminds me of a baking class when the instructor said to brush the loaf with an egg wash! Huh!
> Anyhow - I've got the system ready to download finally. I get the "Initializing Hardware" then the Emulator says 'No device found or device disconnected'. I've tried this in both my Dell Latitude laptop and my IBM Thinkpad 600X both running XP, with identical results.
> I'm assuming, now, that the resistor values may be wrong for these LPT ports. Any suggestions of what resistors to try instead, or of a interface change. I'm wired with the 5 -220 ohms to pins 1, 2, 3, 4, 16, with ground 18-25 and pin 12 of DB25 straight through.
> I'm getting there but still need Help.
> Thanks guys, I hope you're having better luck.
>
> Mike VE3EQP - Surprisingly, one who has worked hardware and programmed stuff from 8080, 1802 Cosmac, 6502 Commodore, 6800 series, PDP8, PDP11, Interdata mod 50, 70, and more, and STILL has trouble!
>

9124. Re: [AT_Sprint] Tri-bander painting

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-06 18:54:18 UTC
From: WA0ITP
Topic: 9101 Message: 9124

One key to successfully painting enclosures is to apply several thin layers, allowing drying in between them, and then bake in an oven at ~ 150F for ~2 hrs. This cures, hardens , and toughens the paint, making it much less succeptible to handling damage.

I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

9125. Anyone lookin' for a rotary encodert kit?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-06 21:06:45 UTC
From: James Rodenkirch
Topic: 9125 Message: 9125

http://www.ebay.com/itm/ATS-AT-Sprint-Rotary-Encoder-Kit-QRP-/150808533951?pt=LH_DefaultDomain_0&hash=item231ce39bbf

9126. MTR Display Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-07 04:05:07 UTC
From: Steven Bornstein
Topic: 9126 Message: 9126

Sounds silly, but what does the decimal point indicate?
73, Steve K8IDN

9127. Re: [AT_Sprint] NS7R CQ NS7R CQ

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-06 23:13:32 UTC
From: Steve Russell
Topic: 9121 Message: 9127

Hi Dale,

Still here, but "here" is now Minnesota, my home QTH. Watsup?

Steve

Hey Steve,
Lost your email address,

--... ...--Dale - WC7S in Wy

9128. MTR s/n 130

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-06 19:55:12 UTC
From: Mike
Topic: 9128 Message: 9128

The assembly of MTR 130 is well under way with just the processor U10
left to be fitted, hope the replacement arrives soon.
Thanks Steve for another great kit...
72/73 Mike g0bpu...

9129. Re: [AT_Sprint] MTR Display Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-07 13:25:57 UTC
From: Scott Zastoupil
Topic: 9126 Message: 9129

I haven't used my MTR yet, but it's probably the power on indicator. "new" feature.

http://groups.yahoo.com/group/AT_Sprint/message/8927

Scott, KB0KFX

From: Steven Bornstein <saborns@...>
To: AT_Sprint@yahoogroups.com
Sent: Sunday, May 6, 2012 11:05 PM
Subject: [AT_Sprint] MTR Display Question

Sounds silly, but what does the decimal point indicate?
73, Steve K8IDN

9130. Re: Need HELP with ATS4 update reflash!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-07 16:08:48 UTC
From: mpupeza
Topic: 9098 Message: 9130

I've given up!
I've asked Steve to sell me a preprogrammed replacement chip!
Anyone trying to reflash that chip should be aware that there is supposed to be a 220 ohm resistor in ALL the leads except the ground.
The drawing in the manual doesn't show this! I 'may' have damaged the chip but it still seems to work so I'll button it up and run it though it's paces.
I wish better luck to others!
73
Mike VE3EQP .....>

--- In AT_Sprint@yahoogroups.com, "mpupeza" <mpupeza@...> wrote:
>
> I put a 220 ohm resistor in the line from DB25 pin 12 to the processor pin 28 - missing in drawing in manual, but described in the written explanation for the ATS3B.
> I now get 'Failed to get target information'!
> Did my previous wiring zap that pin 28? The ATS4 still runs but I haven't checked all functions. It appears to run OK in RX and TX and I can hear ticks when I run the update debugger, but no update.
> I've now tried 3 different laptops in both parallel bi-directional and ECP modes. I have a buddy with a desktop that he'll get running and I'll give it one more try.
> Unless that works, I'll hope for a new preprogrammed chip or live with the p for space PSK31 and the non-updating voltage readout (and any other glitches Steve fixed!).
> Any other ideas welcomed.
> Thanks
> Mike VE3EQP .....>
> (frustrated!)
>
>
> --- In AT_Sprint@yahoogroups.com, "mpupeza" <mpupeza@> wrote:
> >
> > Steps forward but no Cigar - yet!
> >
> > Terminology, or word choice is killing me. Steve says to hit the 'assemble' icon - nothing there. It's the build button. I loaded the .s43 file using the File - open, instead of the Project - add file because my .s43 didn't show up, until you change the drop-down to 'assembler files'. Whew, reminds me of a baking class when the instructor said to brush the loaf with an egg wash! Huh!
> > Anyhow - I've got the system ready to download finally. I get the "Initializing Hardware" then the Emulator says 'No device found or device disconnected'. I've tried this in both my Dell Latitude laptop and my IBM Thinkpad 600X both running XP, with identical results.
> > I'm assuming, now, that the resistor values may be wrong for these LPT ports. Any suggestions of what resistors to try instead, or of a interface change. I'm wired with the 5 -220 ohms to pins 1, 2, 3, 4, 16, with ground 18-25 and pin 12 of DB25 straight through.
> > I'm getting there but still need Help.

> > Thanks guys, I hope you're having better luck.
> >
> > Mike VE3EQP - Surprisingly, one who has worked hardware and programmed stuff from 8080, 1802 Cosmac, 6502 Commodore, 6800 series, PDP8, PDP11, Interdata mod 50, 70, and more, and STILL has trouble!
> >
>

9131. Re: [AT_Sprint] MTR Display Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-07 17:00:24 UTC
From: Steven Weber
Topic: 9126 Message: 9131

> Sounds silly, but what does the decimal point indicate?

It's the new "on" light.

9132. Solder Paste Application: Tip Size

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-07 17:44:36 UTC
From: Jonathan
Topic: 9132 Message: 9132

I mentioned earlier that I used a different vendor for Kester EP256 this time--and although the fatter syringe seems like a better value, the blunt "needle" applicator tips are too large for the ATS rigs. At least that has been my experience.

Cash Olson provides a 23ga (.337mm ID) or 21ga (.514mm ID) applicator tip. CML includes 5-19ga (.686mm ID) "bonus tips" with their 19grams of solder paste. I noticed right away if 'flowed smoother' than I remember--but the fat stream is a problem with the smaller pads. I had better results by far with the smaller needle.

Only problem is you have to really squeeze the syringe (which broke my Cash Olson syringe) to get the paste to express. So I went back into my junk and found the Cash Olson tip, but can't find a thin enough component lead to clear a clog. That's a problem with having just one tip. I should have ordered a few when I ordered my first syringe from C.O.

So in the end, I'd prefer the thinner tip to less plunger resistance. Examining the bottom of the board after heating, it's obvious that I could be applying at least half less solder paste. My fillets bulge instead of giving me that nice convex meniscus. Can't say it enough--less is more with the solder paste.

Jonathan KC7FYS

9133. Re: [AT_Sprint] Solder Paste Application: Tip Size

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-07 17:50:20 UTC
From: kd5kxf@classicnet.net
Topic: 9132 Message: 9133

I used a toothpick and it was easy to get too much... it definitely can cause problems.. not the least of is bridging between parallel parts which is a real pain to correct but by the second side I had it down cold.

Mike KD5KXF
---- Jonathan <kc7fys@...> wrote:
> I mentioned earlier that I used a different vendor for Kester EP256 this time--and although the fatter syringe seems like a better value, the blunt "needle" applicator tips are too large for the ATS rigs. At least that has been my experience.
>
>
> Cash Olson provides a 23ga (.337mm ID) or 21ga (.514mm ID) applicator tip. CML includes 5-19ga (.686mm ID) "bonus tips" with their 19grams of solder paste. I noticed right away if 'flowed smoother' than I remember--but the fat stream is a problem with the smaller pads. I had better results by far with the smaller needle.
>
>
> Only problem is you have to really squeeze the syringe (which broke my Cash Olson syringe) to get the paste to express. So I went back into my junk and found the Cash Olson tip, but can't find a thin enough component lead to clear a clog. That's a problem with having just one tip. I should have ordered a few when I ordered my first syringe from C.O.
>
>
> So in the end, I'd prefer the thinner tip to less plunger resistance. Examining the bottom of the board after heating, it's obvious that I could be applying at least half less solder paste. My fillets bulge instead of giving me that nice convex meniscus. Can't say it enough--less is more with the solder paste.
>
> Jonathan KC7FYS
>

9134. Re: MTR s/n 130

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-07 18:07:31 UTC
From: Colin
Topic: 9128 Message: 9134

Hi Mike,

Nice to see a familar call sign! I recall from the depths of my memory that I have worked you from a SOTA summit or two! I hope to have some more SOTA QSO's with you in the future using an MTR.

My MTR is S/N 131 - a sister!

I wonder how many MTR's ended up in the UK, I know of three so far - Pete G4ISJ, me M0CGH and yourself.

I haven't started building MTR S/N 131 as yet, I've just returned from a week's holiday in Northumberland, and I'm waiting for the replacement processor to arrive.

72
Colin
M0CGH
West Yorks

--- In AT_Sprint@yahoogroups.com, "Mike" <m.r.johnson4715@...> wrote:
>
>
> The assembly of MTR 130 is well under way with just the processor U10
> left to be fitted, hope the replacement arrives soon.
> Thanks Steve for another great kit...
> 72/73 Mike g0bpu...
>

9135. Re: [AT_Sprint] Re: MTR s/n 40

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-07 18:49:26 UTC
From: C WEAVING
Topic: 9128 Message: 9135

Seriel No 40 also in UK. Status--partialy built waiting replacement processor

.
May be useful to compare notes locally as we complete project.

Colin M3WCK

From: Colin <m0cgh@...>
To: AT_Sprint@yahoogroups.com
Sent: Monday, 7 May 2012, 19:07
Subject: [AT_Sprint] Re: MTR s/n 130

Hi Mike,

Nice to see a familar call sign! I recall from the depths of my memory that I have worked you from a SOTA summit or two! I hope to have some more SOTA QSO's with you in the future using an MTR.

My MTR is S/N 131 - a sister!

I wonder how many MTR's ended up in the UK, I know of three so far - Pete G4ISJ, me M0CGH and yourself.

I haven't started building MTR S/N 131 as yet, I've just returned from a week's holiday in Northumberland, and I'm waiting for the replacement processor to arrive.

72
Colin
M0CGH
West Yorks

--- In AT_Sprint@yahoogroups.com, "Mike" <m.r.johnson4715@...> wrote:
>
>
> The assembly of MTR 130 is well under way with just the processor U10
> left to be fitted, hope the replacement arrives soon.
> Thanks Steve for another great kit...
> 72/73 Mike g0bpu...
>

9136. Re: [AT_Sprint] Re: MTR s/n 130

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-07 19:08:52 UTC
From: Peter Martin
Topic: 9128 Message: 9136

On Mon, May 7, 2012 at 7:07 PM, Colin <m0cgh@...> wrote:

>
> Hi Mike,
>
> Nice to see a familar call sign! I recall from the depths of my memory
> that I have worked you from a SOTA summit or two! I hope to have some more
> SOTA QSO's with you in the future using an MTR.
>
> My MTR is S/N 131 - a sister!
>
> I wonder how many MTR's ended up in the UK, I know of three so far - Pete
> G4ISJ, me M0CGH and yourself.
>
> I haven't started building MTR S/N 131 as yet, I've just returned from a
> week's holiday in Northumberland, and I'm waiting for the replacement
> processor to arrive.
>
> 72
> Colin
> M0CGH
> West Yorks
>
>
Colin,
I just PM'd you, but the gist was as follows.
Yes I have #55.
I haven't got round to building mine yet. I was away for a week in Northern
Ireland (with my ATS4. I wonder if that's the first time one of Steve's
rigs has been in action there?)

http://youtu.be/FFqKSDc_iaU

Since I got home I've been usefully employed on other jobs!

I did mange to get the Altoids tin ready so that's a start and about 25% of
the work done, and probably the hardest bit. Those tins are not easy to
work!

https://www.facebook.com/media/set/?set=a.3739352411308.2166497.1501105668&type=1&l=0caaab
8c27

I'm waiting for the updated processor and hope to make a start once it
arrives. I'd expect it will take 3 or 4 evenings to finish.

I'll be SOTAing with it as soon as it's working, although my ATS will
probably remain the rig of choice. We'll see. I'm still trying to decide

on bands, I'm thinking of 40 and 20 but 30 is a great band too. If only it was a tribander but then that's why I have the ATS4 :-).
Musn't tell the wife I've also just ordered an Elecraft KX3 for my Christmas present! It will be too precious to take up any hills, that will remain the domain of Steve's rigs.

Pete
G4ISJ

9137. Re: Need HELP with ATS4 update reflash!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-08 01:17:19 UTC
From: K
Topic: 9098 Message: 9137

Mike,
I was catching up on reading this group, and I just wanted to say that I updated the firmware successfully on my ATS4A. I just looked at the parallel port cable I made, and I did not have the resistor in the lead from the DB25 pin 12. I used the parallel port on my desktop.

One thing I noticed is that you said in an early message that you did not power on the ATS4. When I reprogrammed my ATS4A, I used the directions that Steve gave in:

http://groups.yahoo.com/group/AT_Sprint/message/7903

and he explicitly says to turn on the ATS4 when reprogramming it.

I had to do things a little differently since I had a different version of the software, but it eventually worked. Unfortunately, I didn't keep good notes, so I cannot say exactly what I did.

73 Kevin w9cf

--- In AT_Sprint@yahoogroups.com, "mpupeza" <mpupeza@...> wrote:
>
> I've given up!
> I've asked Steve to sell me a preprogrammed replacement chip!
> Anyone trying to reflash that chip should be aware that there is supposed to be a 220 ohm resistor in ALL the leads except the ground.
> The drawing in the manual doesn't show this! I 'may' have damaged the chip but it still seems to work so I'll button it up and run it though it's paces.
> I wish better luck to others!
> 73
> Mike VE3EQP .....>
>
>
> --- In AT_Sprint@yahoogroups.com, "mpupeza" <mpupeza@> wrote:
> >
> > I put a 220 ohm resistor in the line from DB25 pin 12 to the processor pin 28 - missing in drawing in manual, but described in the written explanation for the ATS3B.
> > I now get 'Failed to get target information'!
> > Did my previous wiring zap that pin 28? The ATS4 still runs but I haven't checked all functions. It appears to run OK in RX and TX and I can hear ticks when I run the update debugger, but no update.
> > I've now tried 3 different laptops in both parallel bi-directional and ECP modes. I have a buddy with a desktop that he'll get running and I'll give it one more try.
> > Unless that works, I'll hope for a new preprogrammed chip or live with the p for space PSK31 and the non-updating voltage readout (and any other glitches Steve fixed!).
> > Any other ideas welcomed.
> > Thanks

> > Mike VE3EQP .....>
> > (frustrated!)
> >
> >
> > --- In AT_Sprint@yahoogroups.com, "mpupeza" <mpupeza@> wrote:
> > >
> > > Steps forward but no Cigar - yet!
> > >
> > > Terminology, or word choice is killing me. Steve says to hit the 'assemble' icon - nothing there. It's the build button. I loaded the .s43 file using the File - open, instead of the Project - add file because my .s43 didn't show up, until you change the drop-down to 'assembler files'. Whew, reminds me of a baking class when the instructor said to brush the loaf with an egg wash! Huh!
> > > Anyhow - I've got the system ready to download finally. I get the "Initializing Hardware" then the Emulator says 'No device found or device disconnected'. I've tried this in both my Dell Latitude laptop and my IBM Thinkpad 600X both running XP, with identical results.
> > > I'm assuming, now, that the resistor values may be wrong for these LPT ports. Any suggestions of what resistors to try instead, or of a interface change. I'm wired with the 5 -220 ohms to pins 1, 2, 3, 4, 16, with ground 18-25 and pin 12 of DB25 straight through.
> > > I'm getting there but still need Help.
> > > Thanks guys, I hope you're having better luck.
> > >
> > > Mike VE3EQP - Surprisingly, one who has worked hardware and programmed stuff from 8080, 1802 Cosmac, 6502 Commodore, 6800 series, PDP8, PDP11, Interdata mod 50, 70, and more, and STILL has trouble!
> > >
> >
>

9138. ebay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-08 03:03:44 UTC
From: charles
Topic: 6496 Message: 9138

Fyi
There is an ats-2 on ebay...I'm not bidding...73 de chas ai4ot

9139. Re: Need HELP with ATS4 update reflash! SUCCESS!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-08 03:26:53 UTC
From: mpupeza
Topic: 9098 Message: 9139

SUCCESS at last!
Steve answered me and is busier than a one armed paperhanger (His words).
He suggested that I check the voltages on the parallel port.
I scoped the pins and found that my cable, for the Dell Latitude, is the exact opposite of the diagram. I needed a 220 ohm resistor ONLY on the 5V line DB25 pin 12 to IC pin 28. The rest sat at 3.3V and pulsed low to ground.
I rewired the cable and it scooted through the reflash.
I haven't completely checked it out (it's after 11:00PM now) but the voltage reading is now following the input, which is a good sign.
However, if I paid myself $10 an hour for doing this, I could have bought several more new KD1JV kits!
Thanks to all the suggestions, both on the group, and private emails.
I'm pleased and will do a Happy Dance later.
73
Mike VE3EQP .....>
Project over - at last!!!!!

--- In AT_Sprint@yahoogroups.com, "K" <w9cf@...> wrote:
>
> Mike,
> I was catching up on reading this group, and I just wanted to say that I updated the firmware successfully on my ATS4A. I just looked at the parallel port cable I made, and I did not have the resistor in the lead from the DB25 pin 12. I used the parallel port on my desktop.
>
> One thing I noticed is that you said in an early message that you did not power on the ATS4. When I reprogrammed my ATS4A, I used the directions that Steve gave in:
>
> http://groups.yahoo.com/group/AT_Sprint/message/7903
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> and he explicitly says to turn on the ATS4 when reprogramming it.
>
> I had to do things a little differently since I had a different version of the software, but it eventually worked. Unfortunately, I didn't keep good notes, so I cannot say exactly what I did.
>
> 73 Kevin w9cf
>

9140. Re: [AT_Sprint] Re: MTR s/n 130

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-08 10:28:37 UTC
From: Peter Martin
Topic: 9128 Message: 9140

Replacement processor has just dropped through the letter box (Thanks Steve).
No holding back now!

72
Pete G4ISJ

9141. Re: MTR s/n 130

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-08 08:27:19 UTC
From: Mike
Topic: 9128 Message: 9141

Hi Colin,
Yes indeed we have worked on sota only a few weeks ago,so tnx for the qso's from G/LD.
Still no U10 so now trying to sort a box.
I hope the building of 131 progresses well and indeed all the other MTR's.
Have SOTA activations planed for June & August so maybe MTR qso's or better still MTR s2s..
keep the iron hot,
73 Mike g0bpu...

--- In AT_Sprint@yahoogroups.com, "Colin" <m0cgh@...> wrote:
>
>
> Hi Mike,
>
> Nice to see a familar call sign! I recall from the depths of my memory that I have worked you from a SOTA summit or two! I hope to have some more SOTA QSO's with you in the future using an MTR.
>
> My MTR is S/N 131 - a sister!
>
> I wonder how many MTR's ended up in the UK, I know of three so far - Pete G4ISJ, me M0CGH and yourself.
>
> I haven't started building MTR S/N 131 as yet, I've just returned from a week's holiday in Northumberland, and I'm waiting for the replacement processor to arrive.
>
> 72
> Colin
> M0CGH
> West Yorks
>
> --- In AT_Sprint@yahoogroups.com, "Mike" <m.r.johnson4715@> wrote:
> >
> >
> > The assembly of MTR 130 is well under way with just the processor U10
> > left to be fitted, hope the replacement arrives soon.
> > Thanks Steve for another great kit...
> > 72/73 Mike g0bpu...
> >
>

9142. Re: MTR s/n 130

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-08 11:51:35 UTC
From: Mike
Topic: 9128 Message: 9142

just arrived home to find US Mail on the mat, many thanks Steve for super service, very glad not to need the chip removal tool but a nice through...now to work.
73 Mike g0bpu

9143. Re: MTR s/n 130

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-08 11:56:57 UTC
From: Colin
Topic: 9128 Message: 9143

Fine Business Guys!

Colin (M3WCK), nice to hear of another MTR in the UK - good luck with the build.

Pete, great news with the arrival of your new processor, hope to hear you have the rig up and running very soon! My XYL informs me that my chip has arrived too :-) (Thanks Steve)

Mike, G0BPU, yeah the soldering iron is always hot! Just putting the finishing touches to a Hendricks SMK-2 at the moment, my blog shows some of my radio adventures so far - I hope to do a blog entry for the MTR in the coming weeks. http://m0cgh.blogspot.co.uk/

I'm so fired up about this radio - it's gonna be such a nice rig!

72
Colin
M0CGH

9144. Tri-Bander success!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-08 15:33:58 UTC
From: Roland
Topic: 9144 Message: 9144

Just thought I'd mention briefly that I got the Weber Tri-Bander going last night. 1st two Q's were DX to Russia! I was in the same spot I made my first two Q's with the ATS3a, way back when. The first QSO's on that little rig were Alaska and Hawaii. My lucky spot! At work atop a 55' tank with a wire strung horizontally to another tank 150' away. About 130ish foot of wire. Grounded to the guard rail.I put the story on the other group for reading. Some typos as I was doing this on the iphone just after the event.
http://groups.yahoo.com/group/DualBander/
I think I'm going to have a lot of fun with these rigs! Further stories about this rig will probably be on the other site.
de n5vwn Roland

9145. MTR Complete

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-08 21:55:06 UTC
From: Steven Bornstein
Topic: 9145 Message: 9145

Just finished alignment of MTR and have posted photos of home made enclosure. Will put it on the air later this evening. I made it sligtly larger than Altoids box to give more room for jacks, etc. 73, Steve K8IDN

9146. SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-08 23:36:31 UTC
From: rOn
Topic: 9145 Message: 9146

I understand that after pre-heating the board on a frypan
you add more heat with heat gun to finish. Why not
raise the frypan temp to finish the solder flow?

rOn

9147. RE: [AT_Sprint] SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-08 23:39:22 UTC
From: Dale Putnam
Topic: 9145 Message: 9147

Unless you have a very very carefully controlled temp, the board will overheat to a temp that will affect the integrity of the board.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: w2ctx@...
Date: Tue, 8 May 2012 16:36:31 -0700
Subject: [AT_Sprint] SMD soldering

I understand that after pre-heating the board on a frypan
you add more heat with heat gun to finish. Why not
raise the frypan temp to finish the solder flow?

rOn

9148. Re: [AT_Sprint] SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 00:43:42 UTC
From: Steve
Topic: 9145 Message: 9148

Ron,
There is, in fact, a YouTube video "out there" showing this exact thing - so it does work. Others have used thermostatically controlled toaster ovens to reflow solder paste as well.

Intellectually, I see a couple of issues:
- from the beginning of my soldering experience, I've been trained to minimize heat on semiconductors (especially)
- working 2 sided boards

Using a griddle or frying pan as the sole heat source one would have to raise the entire board up to the reflow point of about 360F - and not much higher. Careful watch on overall temperature would be required. A griddle thermostat cannot be trusted!

But perhaps more importantly, on a double sided board, you'd risk parts falling off the bottom while trying to solder the top.

When using a griddle just to preheat to say about 200F, then an embossing gun to reflow localized areas, the average board temperature would be less than 360F. The system is exposed to overall less thermal energy which to my thinking "feels better" in that you've attempted to minimize applied heat. Likely I'm over thinking this whole thing - but literally "frying" a solder pasted board just doesn't sound right - to me at least.

73,
Steve
aa8af

On May 8, 2012, at 7:36 PM, rOn wrote:

>
>
> I understand that after pre-heating the board on a frypan
> you add more heat with heat gun to finish. Why not
> raise the frypan temp to finish the solder flow?

9149. MTR Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 01:52:08 UTC
From: Steven Bornstein
Topic: 9149 Message: 9149

I think I have a problem. Rig works very well except it does NOT annunciate frequency when menu clicked. Sidetone works fine and Menu functions (S, M, D, P) are annunciated but not frequency. Am I missing something in the Menu? Ideas welcome. 73, Steve K8IDN

Just made my first QSO Ohio to Minnesota

9150. Re: [AT_Sprint] MTR Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 02:21:57 UTC
From: Steven Weber
Topic: 9149 Message: 9150

There is an option to turn off the sidetone annuciation of the frequency and battery voltage. This is toggled on and off under the "P" function - see the manual for what buttons to push next.

Steve

>I think I have a problem. Rig works very well except it does NOT annunciate
>frequency when menu clicked. Sidetone works fine and Menu functions (S, M,
>D, P) are annunciated but not frequency. Am I missing something in the
>Menu? Ideas welcome. 73, Steve K8IDN
>
> Just made my first QSO Ohio to Minnesota

9151. Re: [AT_Sprint] MTR Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 03:20:25 UTC
From: Steven Bornstein
Topic: 9149 Message: 9151

Tnx Steve. Works perfectly now. Great little rig. I'm ready to head for the hills. Can't seem to find anything approaching a mountain near by, but we do have many parks with hills.
Tnx es 73
Steve K8IDN

Sent from my iPad

On May 8, 2012, at 22:21, "Steven Weber" <steve.kd1jv@...> wrote:

>
> There is an option to turn off the sidetone annuciation of the frequency and
> battery voltage. This is toggled on and off under the "P" function - see the
> manual for what buttons to push next.
>
> Steve
>
>
>
>> I think I have a problem. Rig works very well except it does NOT annunciate
>> frequency when menu clicked. Sidetone works fine and Menu functions (S, M,
>> D, P) are annunciated but not frequency. Am I missing something in the
>> Menu? Ideas welcome. 73, Steve K8IDN
>>
>> Just made my first QSO Ohio to Minnesota
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

9152. MTR PA Heatsink?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 14:43:53 UTC
From: paradoxpete.pdm@gmail.com
Topic: 9152 Message: 9152

OK after only one session I'm 90% through building my MTR.
Before I install the PA MOSFETS, is there any special way of mounting, and should we providing some sort of heatsink?
In the ATS4 they are in contact with the bottom of the case with a dab of heat sink compound. Do we need to provision something similar for the MTR?

TIA
Pete
G4ISJ

9153. Re: MTR PA Heatsink?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 15:49:55 UTC
From: Håkan Olsson
Topic: 9152 Message: 9153

Mouser has these:

http://se.mouser.com/Thermal-Management/Heat-Sinks/_/N-5gg0?P=1yzvkzk&Keyword=heatsink&FS=True

H?kan / SM6EQO

9154. Another MTR working

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 21:05:38 UTC
From: paradoxpete.pdm@gmail.com
Topic: 9154 Message: 9154

I started my MTR this morning and I've just had my first 2 QSOs!
Both with Italy, first on 40 metres where I got a 599 and the second on 20 metres this time a 559. The only alignment I've done is to peak the recieve caps. I'll perform the rest tomorrow and box it up properly.
I'll then get it out on the hills and make it work hard!

http://flic.kr/p/bVjK6G

Outstanding rig and holds a lot of promise, I actually wonder if my ATS4 is performing properly as this little gem sounds a lot livelier!

Only problem I notice is that digits 3 and 5 do not display properly. The lowest horizontal bar does not light. All other digits eg 0,2,6 and 8 all display correctly so it's not the segment. Some bright spark will identify the problem immediately I expect?

http://youtu.be/wFmzqi_P0Cw

Thanks again Steve, you've done good!
72
Pete
G4ISJ

9155. Re: [AT_Sprint] Another MTR working

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 21:15:26 UTC
From: Joseph Trombino, Jr
Topic: 9154 Message: 9155

Howdy pete:

Looks like a nice case you have for the MTR...did you make it or is it available commercially??

73, Joe W2KJ

> I started my MTR this morning and I've just had my first 2 QSOs!
> Both with Italy, first on 40 metres where I got a 599 and the second on 20 metres this time a 559. The only alignment I've done is to peak the recieve caps. I'll perform the rest tomorrow and box it up properly.
> I'll then get it out on the hills and make it work hard!
>
> http://flic.kr/p/bVjK6G
>
> Outstanding rig and holds a lot of promise, I actually wonder if my ATS4 is performing properly as this little gem sounds a lot livelier!
>
> Only problem I notice is that digits 3 and 5 do not display properly. The lowest horizontal bar does not light. All other digits eg 0,2,6 and 8 all display correctly so it's not the segment. Some bright spark will identify the problem immediately I expect?
>
> http://youtu.be/wFmzqi_P0Cw
>
> Thanks again Steve, you've done good!
> 72
> Pete
> G4ISJ

9156. Re: [AT_Sprint] Another MTR working

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 21:20:35 UTC
From: jaevans@pcisys.net
Topic: 9154 Message: 9156

I think what you are seeing is the case for the ATS-4 in the upper background.

72 - john - n0hj

> Howdy pete:
>
> Looks like a nice case you have for the MTR...did you make it or is it
avai> lable commercially??
>
> 73, Joe W2KJ
>

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

9157. Re: [AT_Sprint] Another MTR working

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 21:28:28 UTC
From: jaevans@pcisys.net
Topic: 9154 Message: 9157

BTW, Pete, I love your QRP boat :)

72 - john - n0hj

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

9158. Re: [AT_Sprint] Another MTR working

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 22:21:01 UTC
From: Bill Noyce
Topic: 9154 Message: 9158

On May 9, 2012 5:05 PM, <paradoxpete.pdm@...> wrote:
>
> Only problem I notice is that digits 3 and 5 do not display properly. The lowest horizontal bar does not light. All other digits eg 0,2,6 and 8 all display correctly so it's not the segment. Some bright spark will identify the problem immediately I expect?
>

Sounds like that bottom segment is shorted to the bottom-left one (the difference between 5 & 6). Hope it's a solder splash or copper left on the board somewhere you can remove it!
-- Bill, AB1AV

9159. Re: [AT_Sprint] Another MTR working

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 23:13:23 UTC
From: Peter Martin
Topic: 9154 Message: 9159

On Wed, May 9, 2012 at 10:28 PM, <jaevans@...> wrote:

> BTW, Pete, I love your QRP boat :)
>
> 72 - john - n0hj
>
>
>
> Also an American designer who keeps designing varaitions on a theme!
That's his most famous design "Paradox"
http://www.freewebs.com/paradoxbuild/

72
Pete

9160. Re: Another MTR working

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 21:41:56 UTC
From: Colin
Topic: 9154 Message: 9160

Looking good Pete!

Your problem is a bit of a puzzler, hope a fix is forthcoming.

I started building MTR #131 today, I managed to get the DDS and processor chips on eventually! The DDS chip went on without much trouble, but I spent about 45 mins trying to get the processor nicely soldered! I discovered that the problem was the fact that the legs on the processor were higher than the underneath of the chip, possibly bent during programming or by the post 'crusher' machine they seem to use at the sorting offices these days!

I held the processor chip down on the desk with a finger whilst I gently pressed the legs down with the butt end of the tweezers, once I had done this the chip soldered quite nicely.

Anyhow the 28 pin beast is now out of the way and the now the other parts seem very easy to solder!

Hopefully I'll get quite a bit further with my build tomorrow.

I worked NG2D last night running 1.5W from an SW-20+ and a dipole, so I think the ATS event this Summer might be worth a shot with the MTR. 20m has seemed quite lively with US stations throughout the night of late.

72
Colin
M0CGH

> Only problem I notice is that digits 3 and 5 do not display properly. The lowest horizontal bar does not light. All other digits eg 0,2,6 and 8 all display correctly so it's not the segment. Some bright spark will identify the problem immediately I expect?
>
> http://youtu.be/wFmzqi_P0Cw
>
> Thanks again Steve, you've done good!
> 72
> Pete
> G4ISJ
>

9161. Re: [AT_Sprint] Another MTR working

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-09 21:14:34 UTC
From: kd5kxf@classicnet.net
Topic: 9154 Message: 9161

tiny solder bridge on the processor... that was what caused mine and it was tiny tiny tiny
---- paradoxpete.pdm@... wrote:
> I started my MTR this morning and I've just had my first 2 QSOs!
> Both with Italy, first on 40 metres where I got a 599 and the second on 20 metres this time a 559. The only alignment I've done is to peak the recieve caps. I'll perform the rest tomorrow and box it up properly.
> I'll then get it out on the hills and make it work hard!
>
> http://flic.kr/p/bVjK6G
>
> Outstanding rig and holds a lot of promise, I actually wonder if my ATS4 is performing properly as this little gem sounds a lot livelier!
>
> Only problem I notice is that digits 3 and 5 do not display properly. The lowest horizontal bar does not light. All other digits eg 0,2,6 and 8 all display correctly so it's not the segment. Some bright spark will identify the problem immediately I expect?
>
> http://youtu.be/wFmzqi_P0Cw
>
> Thanks again Steve, you've done good!
> 72
> Pete
> G4ISJ
>

9162. AE5X selling an ATS3 and ATS3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-10 13:48:50 UTC
From: w1mt
Topic: 9162 Message: 9162

No pecuniary interest but here at two unbuilt ATS kits for sale:

http://www.ae5x.com/blog/2012/05/10/for-sale/

Wouldn't think they'd last long.

9163. Re: MTR s/n 130

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-10 18:51:06 UTC
From: Mike
Topic: 9128 Message: 9163

Hi guys,

MTR s/n 130 is up and running, boy was I pleased to see & hear that dit dit dar dar dar when after doing the pre test with ohmmeter, and applying 9 volts it came to life!!. I also had a slight problem with soldering of the processor pins, but with a little tweaking all was well.

Two qso's so far, an EM and an HB9 sota station.

I still have to paint and tidy the very recycled case but did manage to use up all the existing holes, so it seems to be coming together well.

With 9 volts it's producing around 3 watts and a little over 5 watts on 12.5 volts.

Rx seems very lively and was able to hear the C beacon on 7.039 on just the avo lead while testing.

The unused chip should be winging its way back across the Atlantic very soon, thanks again Steve for the super project and looking forward to getting MTR 130 on the hills soon.

73 Mike g0bpu

9164. OT : Play with your LaunchPad

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-11 13:44:43 UTC
From: Yannick (XV4Y)
Topic: 9164 Message: 9164

Hi,

I ordered a TI Launchpad kit a few weeks ago so I will be able to update my MTR firmware.
The delivery has been fast and I have started to play with it waiting for the "real toy" to be released by the customs...

I already had a small experience with the Arduino platform.
Since I am under Mac OS X, a fork of Arduino called Energia is available for the LaunchPad/MSP430.
It is also available on Windows :
https://github.com/energia/Energia/downloads

I wanted to check how portable was the code from the Arduino to the MSP430 using Energia.

Here a result of a few hours of work :
http://xv4y.radioclub.asia/2012/05/11/balise-autonome-wspr-avec-msp430/
The timing is not accurate and some work has to be done for it to be really working on the air.
However, the good thing is that you can write code for the two platforms and/or reuse code written for the Arduino on the MSP430.

I know this is out of topic but since Steve use the MSP430 and many of us have expressed interest for the LaunchPad, I wanted to share my experience.

If you want more details, please send me a private e-mail.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

9165. NAQCC Sprint Wednesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-12 13:58:25 UTC
From: John D. Raycroft
Topic: 2848 Message: 9165

NAQCC Sprint Wednesday night!

Our May sprint is this coming Wednesday evening local time (May 16, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Thursday May 17, 0030-0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201205.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX. A Certificate for top score in the GAIN antenna category. Finally there is one more award - a certificate to the highest score from a first-time participant.

Prizes: A prize of a set of bug/paddle handles or a K1/K2 knob insert donated by master woodworker Gregg WB8LZG is awarded for each sprint to the winner of a random drawing among all participants. Previous winners are not eligible.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6000+ members in: All 50 States - 9 VE Provinces - 90 Countries. Just sign up on the NAQCC website (http://naqcc.info/) and you will receive a handsome certificate, with your membership number which is good for life.

The April Sprint was our biggest and best one yet, with lots of activity - don't miss out on this one!

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

9166. Re: SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-12 11:54:47 UTC
From: N1EU
Topic: 9145 Message: 9166

--- In AT_Sprint@yahoogroups.com, Steve <lawresh@...> wrote:
> When using a griddle just to preheat to say about 200F, then an embossing gun to reflow localized areas, the average board temperature would be less than 360F.

I'm a newbie to SMD soldering and appreciate the collective expertise in this group. Two questions if I may:

1. I see tutorials out there that only use a hot plate to gradually heat up the board and melt the paste, with no hot air used. It seems it goes slow enough to "condition" the paste (I forget the proper term). Is this a flawed approach compared to the 200deg warming + embossing gun method?

2. Would a heat gun (cheap "Drill Master" from Harbor Freight) on the low setting work instead of an embossing gun? Its air flow seems relatively light, at least compared to a hair dryer on low. Or is it still too much air flow? (I've never felt the flow out of an embossing gun)

Thanks & 72,
Barry N1EU

9167. SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-12 18:56:11 UTC
From: rOn
Topic: 1139 Message: 9167

Last week I asked the wrong question about smd soldering.

Actually I bought a Madell 850B reflow station several years ago when it was a big fad! Never used it and now I want to build the new KD1JV radio.

Have no idea how to use it. Do I still need to pre-heat the board?

Anyone with this station have ideas on settings and useage? How far away should the tip be?

rOn

9168. RE: [AT_Sprint] SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-12 19:58:34 UTC
From: Dale Putnam
Topic: 1139 Message: 9168

That is similar to many of the hot air rework stations in use today, and if you are only reworking a single component on a board no preheat is needed.Yet, if you are going to flow a board.. or most of a board, like doing an AT3 or 4... yes preheat in a cup warmer is much more elegant and much less stressful on the components.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: w2ctx@...
Date: Sat, 12 May 2012 11:56:11 -0700
Subject: [AT_Sprint] SMD soldering

Last week I asked the wrong question about smd soldering.
Actually I bought a Madell 850B reflow station several years ago when it was a big fad!Never used it and now I want to build the new KD1JV radio.
Have no idea how to use it. Do I still need to pre-heat the board?
Anyone with this station have ideas on settings and useage? How far away should thetip be?
rOn

9169. Re: [AT_Sprint] Re: SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-12 18:11:53 UTC
From: kd5kxf@classicnet.net
Topic: 9145 Message: 9169

you better test it first... too much airflow and it would be like a popcorn ball made with solder and smd's

---- N1EU <n1eu.barry@...> wrote:
> --- In AT_Sprint@yahoogroups.com, Steve <lawresh@...> wrote:
> > When using a griddle just to preheat to say about 200F, then an embossing gun to reflow localized areas, the average board temperature would be less than 360F.
>
>
> I'm a newbie to SMD soldering and appreciate the collective expertise in this group. Two questions if I may:
>
> 1. I see tutorials out there that only use a hot plate to gradually heat up the board and melt the paste, with no hot air used. It seems it goes slow enough to "condition" the paste (I forget the proper term). Is this a flawed approach compared to the 200deg warming + embossing gun method?
>
> 2. Would a heat gun (cheap "Drill Master" from Harbor Freight) on the low setting work instead of an embossing gun? Its air flow seems relatively light, at least compared to a hair dryer on low. Or is it still too much air flow? (I've never felt the flow out of an embossing gun)
>
> Thanks & 72,
> Barry N1EU
>
b

9170. RE: [AT_Sprint] Re: SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-12 20:21:01 UTC
From: Dale Putnam
Topic: 9145 Message: 9170

the amount of air from a heat gun, can be measured with a feather... if the air flow is such that it blows the feather like a tree in a LIGHT breeze.. you'll likely be ok... but approach your work SLOWLY and have PATIENCE... or the result will be like using one that blows the feather like a tree in a medium to high wind. All the parts leave... or just some of the unmarked caps leave... IF you find them all.. placing them where they belong is diffucult at best. Another test of too much air would be... not very much more than you feel from your own mouth - wide open - with a full exhale.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
CC: n1eu.barry@gmail.com
From: kd5kxf@...
Date: Sat, 12 May 2012 13:11:53 -0500
Subject: Re: [AT_Sprint] Re: SMD soldering

you better test it first... too much airflow and it would be like a popcorn ball made with solder and smd's

---- N1EU <n1eu.barry@...> wrote:

> --- In AT_Sprint@yahoogroups.com, Steve <lawresh@...> wrote:

> > When using a griddle just to preheat to say about 200F, then an embossing gun to reflow localized areas, the average board temperature would be less than 360F.

>

>

> I'm a newbie to SMD soldering and appreciate the collective expertise in this group. Two questions if I may:

>

> 1. I see tutorials out there that only use a hot plate to gradually heat up the board and melt the paste, with no hot air used. It seems it goes slow enough to "condition" the paste (I forget the proper term). Is this a flawed approach compared to the 200deg warming + embossing gun method?

>

> 2. Would a heat gun (cheap "Drill Master" from Harbor Freight) on the low setting work instead of an embossing gun? Its air flow seems relatively light, at least compared to a hair dryer on low. Or is it still too much air flow? (I've never felt the flow out of an embossing gun)

>

> Thanks & 72,

> Barry N1EU

>

b

9171. Re: [AT_Sprint] SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-12 22:35:22 UTC
From: Steve
Topic: 9145 Message: 9171

I would be *extremely careful* of heat guns sold for paint removal, etc. They provide 3 - 4x the temperature needed and at an air velocity that would blow the parts off the board. I have a similar Black & Decker heat gun - which I would never use. It would blister a circuit board quickly only after scattering parts all over the room!

The embossing gun is a smaller inexpensive alternate to the "hot air re-work station". They cost less than $20 at the craft stores (JoAnn's, etc.), and often 40- 50% off coupons are available. Temperature is limited to about 650F (about 1/2 that of the paint removal tools) and have a very light air flow. Here's the one I have:

http://www.joann.com/darice-super-heat-tool-with-stand/prd20134/

Steve
aa8af

On May 12, 2012, at 7:54 AM, N1EU wrote:
>
> 2. Would a heat gun (cheap "Drill Master" from Harbor Freight) on the low setting work instead of an embossing gun? Its air flow seems relatively light, at least compared to a hair dryer on low. Or is it still too much air flow? (I've never felt the flow out of an embossing gun)

9172. Re: [AT_Sprint] Re: SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-12 22:46:45 UTC
From: Barry N1EU
Topic: 9145 Message: 9172

Thanks for all the responses about the embossing gun. Clearly, my heat gun wouldn't be suitable.

I didn't get any responses to my first question on using only a hot plate in a single step process. Is the process shown in http://www.youtube.com/watch?v=Uov0SPHKcnk as good as the two step process in common use on this forum?

Tnx/72,
Barry N1EU

On Sat, May 12, 2012 at 11:54 AM, N1EU <n1eu.barry@...> wrote:

> **
>
>
> --- In AT_Sprint@yahoogroups.com, Steve <lawresh@...> wrote:
> > When using a griddle just to preheat to say about 200F, then an
> embossing gun to reflow localized areas, the average board temperature
> would be less than 360F.
>
> I'm a newbie to SMD soldering and appreciate the collective expertise in
> this group. Two questions if I may:
>
> 1. I see tutorials out there that only use a hot plate to gradually heat
> up the board and melt the paste, with no hot air used. It seems it goes
> slow enough to "cure" the paste. Is this a flawed approach compared to the
> 200deg warming + embossing gun method?
>
> 2. Would a heat gun (cheap "Drill Master" from Harbor Freight) on the low
> setting work instead of an embossing gun? Its air flow seems relatively
> light, at least compared to a hair dryer on low. Or is it still too much
> air flow? (I've never felt the flow out of an embossing gun)
>
> Thanks & 72,
> Barry N1EU
>
>
>

9173. Re: [AT_Sprint] Re: SMD soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-13 00:20:44 UTC
From: kd5kxf@classicnet.net
Topic: 9145 Message: 9173

You could only do one side that way if you used that method. I would be real hesitant to try this because of the lack of precise heat control on hot plate type devices too.

Mike KD5KXF

---- Barry N1EU <n1eu.barry@...> wrote:
> Thanks for all the responses about the embossing gun. Clearly, my heat gun
> wouldn't be suitable.
>
> I didn't get any responses to my first question on using only a hot plate
> in a single step process. Is the process shown in
> http://www.youtube.com/watch?v=Uov0SPHKcnk as good as the two step process
> in common use on this forum?
>
> Tnx/72,
> Barry N1EU
>
> On Sat, May 12, 2012 at 11:54 AM, N1EU <n1eu.barry@...> wrote:
>
> > **
> >
> >
> > --- In AT_Sprint@yahoogroups.com, Steve <lawresh@...> wrote:
> > > When using a griddle just to preheat to say about 200F, then an
> > embossing gun to reflow localized areas, the average board temperature
> > would be less than 360F.
> >
> > I'm a newbie to SMD soldering and appreciate the collective expertise in
> > this group. Two questions if I may:
> >
> > 1. I see tutorials out there that only use a hot plate to gradually heat
> > up the board and melt the paste, with no hot air used. It seems it goes
> > slow enough to "cure" the paste. Is this a flawed approach compared to the
> > 200deg warming + embossing gun method?
> >
> > 2. Would a heat gun (cheap "Drill Master" from Harbor Freight) on the low
> > setting work instead of an embossing gun? Its air flow seems relatively
> > light, at least compared to a hair dryer on low. Or is it still too much
> > air flow? (I've never felt the flow out of an embossing gun)
> >
> > Thanks & 72,
> > Barry N1EU
> >
> >
> >

9174. New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 01:08:13 UTC
From: AT_Sprint@yahoogroups.com
Topic: 154 Message: 9174

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the AT_Sprint
group.

File : /MTR /IAR/MTR_2.s43
Uploaded by : kd1jv <steve.kd1jv@...>
Description : Bug fixes as of 5/13/12

You can access this file at the URL:
http://groups.yahoo.com/group/AT_Sprint/files/MTR%20/IAR/MTR_2.s43

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

kd1jv <steve.kd1jv@...>

9175. MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 01:19:15 UTC
From: Steven
Topic: 9175 Message: 9175

Okay,nothing too serious this time.

1. It is still possible to tune past the lower tuning limits and RIT limits, without warning.

I thought I fixed this, but turns out I only reduced the chance of it happening by 50%. If there is an odd mumber in the 100 Hz digit when fast tune mode starts, the lower limit won't get detected. Therefore, if your operating near the band edge, check the freq before transmitting or use single step tuning.

2. 80M band isn't detected. This is only an issue for a few and thier getting new chips.

3. If the rig is in Straight key mode and you do a setup save, it will remain in SK mode forever. Well, not quite forever, as you can clear it if you want. That is done by powering the rig up with the MENU button held closed. That will clear the options flags and the start up freq registers. Then do another set up save. Calibration data is not affected.

I was going to change that so the SK flag is always cleared on power up or before a setup save, but decided some might want to leave it that way, so it is now a feature.

For those who can re-flash thier processor, the latest source code is in the MTR/IAR folder.

Man, this better be the end of this!

72, Steve KD1JV

9176. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 05:30:41 UTC
From: jgaffke
Topic: 9175 Message: 9176

For those trying to reflash their own chips using Steve's files,
I found it necessary to first open Steve's "MTR" workspace,
then "Project", "Options" "Debugger" and then select
"FET Debugger" instead of "Simulator" under "Driver".
If you don't do that, then "Download and Debug" apparently
happens within a software simulator with no errors reported,
and will never make it out over the USB port to the chip
on the MTR board.
I did not download his "Debug" directory tree, but did do a
"Project", "Rebuild All", before doing the "Download and Debug"
I found that IAR package amazingly confusing, don't be afraid
to ask questions (though I may not be around to answer them).
Jerry, KE7ER

9177. Re: [AT_Sprint] MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 06:38:57 UTC
From: Paul Mateer
Topic: 9175 Message: 9177

Like I said Steve....software is never done...

On Sun, May 13, 2012 at 8:19 PM, Steven <steve.kd1jv@...> wrote:

> **
>
>
> Okay,nothing too serious this time.
>
> 1. It is still possible to tune past the lower tuning limits and RIT
> limits, without warning.
>
> I thought I fixed this, but turns out I only reduced the chance of it
> happening by 50%. If there is an odd mumber in the 100 Hz digit when fast
> tune mode starts, the lower limit won't get detected. Therefore, if your
> operating near the band edge, check the freq before transmitting or use
> single step tuning.
>
> 2. 80M band isn't detected. This is only an issue for a few and thier
> getting new chips.
>
> 3. If the rig is in Straight key mode and you do a setup save, it will
> remain in SK mode forever. Well, not quite forever, as you can clear it if
> you want. That is done by powering the rig up with the MENU button held
> closed. That will clear the options flags and the start up freq registers.
> Then do another set up save. Calibration data is not affected.
>
> I was going to change that so the SK flag is always cleared on power up or
> before a setup save, but decided some might want to leave it that way, so
> it is now a feature.
>
> For those who can re-flash thier processor, the latest source code is in
> the MTR/IAR folder.
>
> Man, this better be the end of this!
>
> 72, Steve KD1JV
>
>
>

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

9178. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 11:50:23 UTC
From: kd5kxf@classicnet.net
Topic: 9175 Message: 9178

I have been trying unsuccessfully to reflash mine with the first update. I will give this a try, I had to put mine away for a bit or the Launchpad was going to live up to it's name and get launched HIHI.

Mike KD5KXF
---- jgaffke <jgaffke@...> wrote:
> For those trying to reflash their own chips using Steve's files,
> I found it necessary to first open Steve's "MTR" workspace,
> then "Project", "Options" "Debugger" and then select
> "FET Debugger" instead of "Simulator" under "Driver".
> If you don't do that, then "Download and Debug" apparently
> happens within a software simulator with no errors reported,
> and will never make it out over the USB port to the chip
> on the MTR board.
> I did not download his "Debug" directory tree, but did do a
> "Project", "Rebuild All", before doing the "Download and Debug"
> I found that IAR package amazingly confusing, don't be afraid
> to ask questions (though I may not be around to answer them).
> Jerry, KE7ER
>

9179. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 13:24:09 UTC
From: jgaffke
Topic: 9175 Message: 9179

I placed Steve's files at c:\msp\mtr two weeks ago,
vaguely remember a hard link in Steve's config to that.
But can't find it now, and I could be wrong.

Would be nice if somebody created a self extracting zip
file of all Steve's files, and then fully tested
and documented it.

That IAR stuff looks very capable for simulating and
setting breakpoints and monitoring registers and such.
But getting it to work the first time can be confusing.

Jerry

9180. MT color unmarked SMD parts

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 17:04:39 UTC
From: ohwenzelph
Topic: 9180 Message: 9180

i color them so if they get moved before i have a chance to melt the paste, i will be able to know what they are.

posted pictures of the post melt views in the photo section under AA1OF

72/73
jerry aa1of

9181. Re: MT color unmarked SMD parts

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 20:35:52 UTC
From: n1rx
Topic: 9180 Message: 9181

Hi, Jerry.
Glad to see your MTR buid is coming along. I am wondering what the effects of the colored markers will be on the capacitors value, or leakage, etc...

I may have to do some experiments here myself to see if I can measure any differences when appling marking pen to the capacitors like this. (or did you use some form of paint?)

72.5,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "ohwenzelph" <ohwenzelph@...> wrote:
>
> i color them so if they get moved before i have a chance to melt the paste, i will be able to know what they are.
>
> posted pictures of the post melt views in the photo section under AA1OF
>
> 72/73
> jerry aa1of
>

9182. MTR - Straight key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 23:37:23 UTC
From: Steven
Topic: 9182 Message: 9182

It turns out you can't save the setup with Straight key enabled and then be able to disable it later! I cleared one of the flag registers when the rig is powered up with the menu button held closed, but not the one with the Straight key flag!

I just up loaded a new source code file which fixes that little snafu.

So, if you want to save the rig set up, first make sure your not in SK mode!

Steve KD1JV

9183. Dayton Hamvetion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 23:43:08 UTC
From: Steven
Topic: 9183 Message: 9183

Okay, ready or not, I'll be on the bus and on my way to Dayton early tomorrow morning.

Hope to meet some of you there!

And of course, after the convention I'll be going hiking for a couple of weeks - I really need some down time!!

72, Steve KD1JV

9184. 3 Digit Display Mod for MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 21:41:37 UTC
From: wheeler2roh
Topic: 9184 Message: 9184

I'm one of the folks that will have to wait for the Steve's next MTR kit run (please do Steve!), but in the mean time I've been going over the specs and have enjoying hearing about early builder experiences.

Was wondering folks thoughts on upgrading the single digit display to 3 or 4 digits. 1st would involve MPS430 code changes (Steve has provided base Project files (I haven't yet worked out if the 430 could even drive a 3 digit display), and there would be some hardware mods. A "power save" timer could keep extra current drain at a minimum.

Thoughts?

73
Wayne
W6AHH

9185. Re: [AT_Sprint] 3 Digit Display Mod for MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-14 23:51:15 UTC
From: Michael Harnage
Topic: 9184 Message: 9185

Why limit yourself to 3 digits. Use a serial lcd display. Only need 2 lines from the original led display leaving plenty of extra for whatever.

>Was wondering folks thoughts on upgrading the single digit display to 3 or 4 digits. 1st would involve MPS430 code changes (Steve has provided base Project files (I >haven't yet worked out if the 430 could even drive a 3 digit display), and there would be some hardware mods. A "power save" timer could keep extra current drain at >a minimum.

9186. Re: [AT_Sprint] Dayton Hamvetion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-15 01:03:18 UTC
From: Hank Greeb
Topic: 9183 Message: 9186

Have a safe trip and a restful hike, OM! You deserve it! If you get a chance, take some pictures along your hike, and share with the multitude!

72/73 de n8xx Hg

On 5/14/2012 7:43 PM, Steven wrote:
> Okay, ready or not, I'll be on the bus and on my way to Dayton early tomorrow morning.
>
> Hope to meet some of you there!
>
> And of course, after the convention I'll be going hiking for a couple of weeks - I really need some down time!!
>
> 72, Steve KD1JV

9187. Re: [AT_Sprint] 3 Digit Display Mod for MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-15 01:17:40 UTC
From: kd5kxf@classicnet.net
Topic: 9184 Message: 9187

It doesn't take long to get used to the single digit display as it is and it has the audio annunciator as well. I really don't even look anymore... hit the menu key and it spits it out in morse at you. I don't mind it being stripped down at all, that is part of the point of this rig and I think Steve did a great job of keeping the creeping features syndrome beat back here. It is a field rig and it fits in an altoids can and has just about everything I could want. An altoids compliant autotuner would be cool though...

Mike KD5KXF
---- wheeler2roh <wayne.wheeler@...> wrote:
> I'm one of the folks that will have to wait for the Steve's next MTR kit run (please do Steve!), but in the mean time I've been going over the specs and have enjoying hearing about early builder experiences.
>
> Was wondering folks thoughts on upgrading the single digit display to 3 or 4 digits. 1st would involve MPS430 code changes (Steve has provided base Project files (I haven't yet worked out if the 430 could even drive a 3 digit display), and there would be some hardware mods. A "power save" timer could keep extra current drain at a minimum.
>
>
> Thoughts?
>
> 73
> Wayne
> W6AHH
>

9188. single digit display and altoids compliant auto tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-15 03:13:17 UTC
From: charles
Topic: 9188 Message: 9188

i've used the ats-3b for a couple of years and don't mind the single digit at all and when i had an ats-4 with a full screen it didn't feel right because it wasn't in an altoids tin. i DO look at the single digit to confirm (because my code is not that great) so i don't pine for more digits. i do, however, really like the idea of an auto tuner that would fit in an altoids tin (with battery). (ps ... i just built a bitx and got a really small 8x2 lcd from china for it that will fit in an altoids tin with a MTR ... not suggesting anything!) ... 73 de charles ai4ot ... (have a safe trip kd1jv!)

9189. Re: single digit display and altoids compliant auto tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-15 05:51:10 UTC
From: wheeler2roh
Topic: 9188 Message: 9189

Thanks all for the responses on adding digits

- LCD might be the way to go and open up more options, but I never like the look of them :)

- I'd forgotten that the MTR spits the freq out in CW as well, and good to hear this is quite workable. I'm sure Steve thought this through- I'm just an engineer at heart and can't leave things alone :)

- I've got a Norcal BTW tuner, but Steve's ALT tuner (Altoids can)
http://kd1jv.qrpradio.com/alt/ALT.HTM
might be a better match. Hendricks no longer kits this, but I might roll my own

Wayne

--- In AT_Sprint@yahoogroups.com, "charles" <ai4ot@...> wrote:
>
> i've used the ats-3b for a couple of years and don't mind the single digit at all and when i had an ats-4 with a full screen it didn't feel right because it wasn't in an altoids tin. i DO look at the single digit to confirm (because my code is not that great) so i don't pine for more digits. i do, however, really like the idea of an auto tuner that would fit in an altoids tin (with battery). (ps ... i just built a bitx and got a really small 8x2 lcd from china for it that will fit in an altoids tin with a MTR ... not suggesting anything!) ... 73 de charles ai4ot ... (have a safe trip kd1jv!)
>

9190. 0.2□ 7 SEG LED

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-15 21:41:42 UTC
From: tdelozie
Topic: 9190 Message: 9190

I am making good progress on #148, but I have broken my LED display. I didn't like the way it was sitting on the board, I think you can imagine the rest. I know it is a
0.2" 7 SEG LED
but I want to make sure to get a pin correct replacement. I noticed some were common pin cathode and others common pin anode. Can the correct model be published?

Also, I can update my firmware with the instruction provided.

Thanks
KF5NWC

9191. Re: 0.2☐ 7 SEG LED

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 00:35:09 UTC
From: n1rx
Topic: 9190 Message: 9191

Since the schematic shows pins 3 and 8 going directly to +3.3v, you can safely assume it is common anode. -Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "tdelozie" <tdelozie@...> wrote:
>
> I am making good progress on #148, but I have broken my LED display. I didn't like the way it was sitting on the board, I think you can imagine the rest. I know it is a
> 0.2" 7 SEG LED
> but I want to make sure to get a pin correct replacement. I noticed some were common pin cathode and others common pin anode. Can the correct model be published?
>
> Also, I can update my firmware with the instruction provided.
>
> Thanks
> KF5NWC
>

9192. Re: Dayton Hamvetion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 00:40:43 UTC
From: ve3wmb
Topic: 9183 Message: 9192

I won't make it to Dayton this year but I just registered for Lobstercon in July.

Are you going to be at Lobstercon this year Steve ?

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Okay, ready or not, I'll be on the bus and on my way to Dayton early tomorrow morning.
>
> Hope to meet some of you there!
>
> And of course, after the convention I'll be going hiking for a couple of weeks - I really need some down time!!
>
> 72, Steve KD1JV
>

9193. MTR 119 Alive and on the air

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-15 23:47:29 UTC
From: k1thp
Topic: 9193 Message: 9193

Just finished MTR119 and had a first QSO on 40 Meters with NS0TA
in PA Got a 559 from Guy (NU2N) and was running abt 2 watts to my OCF 80 Meter Dipole (9 Volt Battery power). Now have to finish the enclosure and redo the complete calibration.
Thanks Steve for a cool rig.
73,
Dave K1THP

9194. Re: Dayton Hamvetion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 00:53:53 UTC
From: n1rx
Topic: 9183 Message: 9194

I believe Steve's on the bus to Dayton by now. He's a regular at Lobstercon, and I expect he will be there. I'll look forward to seeing you as well, Michael.
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@...> wrote:
>
> I won't make it to Dayton this year but I just registered for Lobstercon in July.
>
> Are you going to be at Lobstercon this year Steve ?
>
> Michael VE3WMB
>
> --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@> wrote:
> >
> > Okay, ready or not, I'll be on the bus and on my way to Dayton early tomorrow morning.
> >
> > Hope to meet some of you there!
> >
> > And of course, after the convention I'll be going hiking for a couple of weeks - I really need some down time!!
> >
> > 72, Steve KD1JV
> >
>

9195. ATS-3 to ATS-3B Conversion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 13:52:48 UTC
From: bill_w4zv
Topic: 9195 Message: 9195

I have an ATS-3 but would love to find a way to add 15 meters. I know it would need new firmware plus the 15m BPF but haven't looked into the details.

Is it possible to convert it to an ATS-3B? Has anyone done this?

73, Bill W4ZV

9196. Re: ATS-3 to ATS-3B Conversion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 14:13:55 UTC
From: n1rx
Topic: 9195 Message: 9196

Hi, Bill. The ATS-3 will not do 15M. The DDS chip/master oscillator does not run at a high enough frequency to allow this. The only way to convert an ATS-3 to a 3b is to first convetrt the AST-3 to dollars. Then convert the dollars into someone elses '3B.
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "bill_w4zv" <w0zv@...> wrote:
>
> I have an ATS-3 but would love to find a way to add 15 meters. I know it would need new firmware plus the 15m BPF but haven't looked into the details.
>
> Is it possible to convert it to an ATS-3B? Has anyone done this?
>
> 73, Bill W4ZV
>

9197. Re: ATS-3 to ATS-3B Conversion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 14:44:55 UTC
From: bill_w4zv
Topic: 9195 Message: 9197

Thanks Bruce!

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
>
> The ATS-3 will not do 15M. The DDS chip/master oscillator does not run at a high enough frequency to allow this.

Wouldn't it be possible to remove/replace those chips? Seems like much of the analog circuitry should be similar but I haven't compared the schematics. I doubt there's much of a market for a used ATS-3 or I'd do as you suggest. If the only option is to buy a ATS-3B, I'd probably go with an ATS-4 instead.

73, Bill

9198. Re: [AT_Sprint] Re: ATS-3 to ATS-3B Conversion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 15:21:25 UTC
From: Michael Harnage
Topic: 9195 Message: 9198

You could but you may also have to change other logic chips that aren't spec'd to the faster speeds. Plus you'd have to find a band board (nigh impossible) and change the firmware. Just changing the clock speed will make you go nuts in the firmware... let alone accounting for a new band. Not worth it in my book.

I'd be willing to bet you can get what you paid if not a little more for the ATS-3 and it would sell very fast.

-mike/w1mt

>_____
>
>
>Wouldn't it be possible to remove/replace those chips? Seems like much of the analog circuitry should be similar but I haven't compared the schematics. I doubt there's much of a market for a used ATS-3 or I'd do as you suggest. If the only option is to buy a ATS-3B, I'd probably go with an ATS-4 instead.
>
>73, Bill
>
>
>
>
>
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>Yahoo! Groups Links
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9199. Re: [AT_Sprint] Re: ATS-3 to ATS-3B Conversion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 17:01:12 UTC
From: Hank Greeb
Topic: 9195 Message: 9199

AT-Sprint 3's of any ilk are still in high demand. You should be able to get your ca$h investment out of any AT-Sprint Model 3.x where x goes from nothing to 3b. There was an AT-Sprint model 2 for sale on e-Bay which I'd probably have purchased just to get one of them, but I'm saving my shekels for a KX3, once the dust has settled and the cacophony of "I MUST BE FIRST" buyers subsides.

72/73 de n8xx Hg

On 5/16/2012 10:44 AM, bill_w4zv wrote:
> Thanks Bruce!
>
> --- In AT_Sprint@yahoogroups.com, "n1rx"<bruce.beford@...> wrote:
>> The ATS-3 will not do 15M. The DDS chip/master oscillator does not run at a high enough frequency to allow this.
> Wouldn't it be possible to remove/replace those chips? Seems like much of the analog circuitry should be similar but I haven't compared the schematics. I doubt there's much of a market for a used ATS-3 or I'd do as you suggest. If the only option is to buy a ATS-3B, I'd probably go with an ATS-4 instead.
>
> 73, Bill

9200. Re: ATS-3 to ATS-3B Conversion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 18:59:04 UTC
From: bill_w4zv
Topic: 9195 Message: 9200

Thanks Mike, Hank, Bruce! I don't recall exactly what I paid for the ATS-3 kit but I believe something under $200. Does anyone recall exactly?

Also was there an ATS-3A in addition to the ATS-3 or are they identical. If I offer this for sale I'd like to use the correct description.

73, Bill

--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:

> I'd be willing to bet you can get what you paid if not a little more for the ATS-3 and it would sell very fast.

9201. Re: [AT_Sprint] Re: ATS-3 to ATS-3B Conversion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 19:08:11 UTC
From: Michael Harnage
Topic: 9195 Message: 9201

The ATS-3 was originally about $165 give or take postage.

The 3A and the 3 differ. I'd have to look at the schematics to tell exactly. I believe the 3A did not allow the crystal filter to be bypassed.

-mike/w1mt

>_____
>
>
>Thanks Mike, Hank, Bruce! I don't recall exactly what I paid for the ATS-3 kit but I believe something under $200. Does anyone recall exactly?
>
>Also was there an ATS-3A in addition to the ATS-3 or are they identical. If I offer this for sale I'd like to use the correct description.
>
>

9202. Re: [AT_Sprint] Re: ATS-3 to ATS-3B Conversion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 19:30:04 UTC
From: Barry N1EU
Topic: 9195 Message: 9202

On Wed, May 16, 2012 at 2:13 PM, n1rx <bruce.beford@...> wrote:

> **
>
>
> The only way to convert an ATS-3 to a 3b is to first convetrt the AST-3
> to dollars. Then convert the dollars into someone elses '3B.
>

Except I would do it in the reverse order to eliminate what might be a long
ATS3-less wait to convert the dollars into an ATS-3B that becomes available.

Barry N1EU

9203. RE: [AT_Sprint] Re: ATS-3 to ATS-3B Conversion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 19:39:07 UTC
From: Dale Putnam
Topic: 9195 Message: 9203

Hi Bill, Seems to me that there were 3 versions of the 3.... minor differences.. no spec changes to speak of. But improvements to say the least. You'd be finding that on the cd that came with it, hopefully. Otherwise, describe it as a 3... unknown version. I wish I had an extra one, that was working well.. I'd trade with you.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: w0zv@...
Date: Wed, 16 May 2012 18:59:04 +0000
Subject: [AT_Sprint] Re: ATS-3 to ATS-3B Conversion

Thanks Mike, Hank, Bruce! I don't recall exactly what I paid for the ATS-3 kit but I believe something under $200. Does anyone recall exactly?

Also was there an ATS-3A in addition to the ATS-3 or are they identical. If I offer this for sale I'd like to use the correct description.

73, Bill

--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:

> I'd be willing to bet you can get what you paid if not a little more for the ATS-3 and it would sell very fast.

9204. Re: ATS-3 to ATS-3B Conversion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 19:51:32 UTC
From: n1rx
Topic: 9195 Message: 9204

There was the ATS-3, 80,40,30,20 band boards. Also had a "wide" recieve mode that bypassed the crystal filter. Good for cross mode contacts or SWL listening. Kit originally sold for about $130, IIRC

The ATS-3a did away with the wide RX filter mode, and redesigned the band modules to improve performance, and had some changes to the T/R switching. from the 3a manual: "The new ATS-3A differs from the previous ATS-3 primarily by having an improved QSK T/R switching
scheme which eliminates or greatly reduces problems of IMD from strong SWBC stations on the 40 and 30 meter bands." I don't remember what I paid for the 3a, but it was similar to the ATS-3.

The ATS-3B, and 3B.1 was the rig that first included the 7-segment LED readout now seen on the MTR, and increased the DDS max freq to cover up to 15M. It covers 6 bands, 80-15M. I believe it sold for $170 originally. One unbuilt kit just was advertised for $200, and sold in less than a day.

The manuals for all these rigs are in the Files section of the group.

hope this helps,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Hi Bill, Seems to me that there were 3 versions of the 3.... minor differences.. no spec changes to speak of. But improvements to say the least. You'd be finding that on the cd that came with it, hopefully. Otherwise, describe it as a 3... unknown version. I wish I had an extra one, that was working well.. I'd trade with you.
>

9205. Re: ATS-3 to ATS-3B Conversion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-16 21:14:57 UTC
From: n1rx
Topic: 9195 Message: 9205

Sound advice, if other radio options are not available while waiting for a '3B to come on the market...

--- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@...> wrote:
>
> On Wed, May 16, 2012 at 2:13 PM, n1rx <bruce.beford@...> wrote:
>
> > **
> >
> >
> > The only way to convert an ATS-3 to a 3b is to first convetrt the AST-3
> > to dollars. Then convert the dollars into someone elses '3B.
> >
>
> Except I would do it in the reverse order to eliminate what might be a long
> ATS3-less wait to convert the dollars into an ATS-3B that becomes available.
>
> Barry N1EU
>

9206. Dayton FDIM

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-18 04:18:29 UTC
From: charles
Topic: 9206 Message: 9206

Met Steve Weber this evening and he was a real gentleman! He was thanking us, imagine that. Thank you Steve! 72/73 de chas ai4ot

9207. Re: [AT_Sprint] Dayton FDIM

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-18 06:32:19 UTC
From: Thomas Kuehl
Topic: 9206 Message: 9207

Charles,

That is good to hear about Steve; I've never met him, but feel we all owe him a debt for providing such cool little QRP radio kits. Certainly, he is not getting rich off them and it is a labor of love instead.

Enjoy FDIM - wish I could be there. Let us know about anything really neat you learn about or see.

'73, Thomas - ac7a (Tokyo)

From: charles <ai4ot@...>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, May 17, 2012 9:18 PM
Subject: [AT_Sprint] Dayton FDIM

Met Steve Weber this evening and he was a real gentleman! He was thanking us, imagine that. Thank you Steve! 72/73 de chas ai4ot

9208. Module connectors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-19 11:09:25 UTC
From: iapizloj
Topic: 9208 Message: 9208

Folks,
I would like to know the maker/references of the connectors used on the band modules on ATS rigs. They are sip connectors on the motherboard and pin/pin strips on the modules with very thin round pins. Those are the ones broken in my rig, duh!
Thanks for your help.
jon, ea2sn

9209. RE: [AT_Sprint] Module connectors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-19 14:24:18 UTC
From: Dale Putnam
Topic: 9208 Message: 9209

Hi Jon, Which ATS radio is it? There were different SIP connectors used in the different radios. Is it the connectors on a single filter module.. or the jack on the radio?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: jon.iza@...
Date: Sat, 19 May 2012 11:09:25 +0000
Subject: [AT_Sprint] Module connectors

Folks,

I would like to know the maker/references of the connectors used on the band modules on ATS rigs. They are sip connectors on the motherboard and pin/pin strips on the modules with very thin round pins. Those are the ones broken in my rig, duh!

Thanks for your help.

jon, ea2sn

9210. Re: Module connectors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-19 16:28:48 UTC
From: iapizloj
Topic: 9208 Message: 9210

Hi, Dale and the group,
it was from the original ATS. It was my first SMD kit and made at the time a bunch of no-nos. I have fixed all of them now, and have around 2.5 W with a 12V battery, so am a happy camper.
I have browsed the manuals on the files section of the group and have seen other versions used different pins/connectors.
A fellow colleague from EA5-land has sent me a good link from a Spanish dealer, so I do not need to track down the origin or maker.
Should you want to know what I was after, here it is a picture.
http://www.ondaradio.es/esp/detalle.aspx?id=277
Thanks again for your kindness.
jon, ea2sn

9211. RE: [AT_Sprint] Re: Module connectors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-19 16:35:39 UTC
From: Dale Putnam
Topic: 9208 Message: 9211

I also have one of the original Sprints. Great little radio. Mine is in a Zamboids case. Seems yours is doing right well too. Glad you found the pins. Maybe one day we can do a Sprint to Sprint Q. Hope so,Have a great day,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: jon.iza@...
Date: Sat, 19 May 2012 16:28:48 +0000
Subject: [AT_Sprint] Re: Module connectors

Hi, Dale and the group,

it was from the original ATS. It was my first SMD kit and made at the time a bunch of no-nos. I have fixed all of them now, and have around 2.5 W with a 12V battery, so am a happy camper.

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Should you want to know what I was after, here it is a picture.

http://www.ondaradio.es/esp/detalle.aspx?id=277

Thanks again for your kindness.

jon, ea2sn

9212. Re: 3 Digit Display Mod for MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-20 19:55:24 UTC
From: Vojtech
Topic: 9184 Message: 9212

Hi Wayne.

This is what I did 4 and half years ago:
http://groups.yahoo.com/group/AT_Sprint/message/3871

It worked well, but I was not able to find an appropriate box for the ATS-3b + display combo and at the end I decided as Mike W1MT once commented, that the ATS-3b really wants to live in the Altoids tin.

Anyway, the display is cheap, the three shift registers as well and the software modification is not that difficult, I think it is still part of my alternate ATS-3b firmware, only switched off. The firmware has to flip the polarity of all display pins cca. 50x per second.

73, Vojtech OK1IAK, AB2ZA

--- In AT_Sprint@yahoogroups.com, "wheeler2roh" <wayne.wheeler@...> wrote:
>
> I'm one of the folks that will have to wait for the Steve's next MTR kit run (please do Steve!), but in the mean time I've been going over the specs and have enjoying hearing about early builder experiences.
>
> Was wondering folks thoughts on upgrading the single digit display to 3 or 4 digits. 1st would involve MPS430 code changes (Steve has provided base Project files (I haven't yet worked out if the 430 could even drive a 3 digit display), and there would be some hardware mods. A "power save" timer could keep extra current drain at a minimum.
>
>
> Thoughts?
>
> 73
> Wayne
> W6AHH
>

9213. MTR #55 first SOTA activation.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-21 20:25:19 UTC
From: paradoxpete.pdm@gmail.com
Topic: 9213 Message: 9213

Well with some sunshine at last, I grabbed the MTR after work and headed for my local hill (G/CE-001).

Quickly set up with my normal EFHW feed with an Altoids L tuner, all hanging off an 8 metre roach pole.

A quick CQ SOTA brought a pile up of 22 chasers on 7Mhz, which I rattled off in 18 minutes.

Moving to 14Mhz the going was slower and after a quick burst of activity called it quits after only 8 Contacts.

A quick break and then back to 7Mhz to finish the day to bring the 40 metre total up to 35, 43 in total altogether.

13 countries worked, most reports varied between 59 and 539.

https://fbcdn-sphotos-a.akamaihd.net/hphotos-ak-ash4/389350_3976383256931_1501105668_3333058_1955340180_n.jpg

Very happy with the performance and the little rig will now live in the saddle bag of my bicycle. The ATS4 will come with me on hikes!

I've taken a bit of video which I'll post once I edit out the shots of grass and sky!

In the meantime here's what happens when your wandering around thinking everyone has played enough for one day!
http://youtu.be/61MC00VnhL0

72
Pete G4ISJ

9214. Re: 3 Digit Display Mod for MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-21 20:28:04 UTC
From: wa2ohf
Topic: 9184 Message: 9214

I have three sprint rigs and when you get operating one of them
you will never even think about changing the display !
When you want to see and hear the frequency you hit one button and it displays the last three digits in sequential order and you hear it in your headset in moss code what could be any nicer then that !
Arthur NS7E in Minnesota.
--- In AT_Sprint@yahoogroups.com, "Vojtech" <bubnikv@...> wrote:
>
> Hi Wayne.
>
> This is what I did 4 and half years ago:
> http://groups.yahoo.com/group/AT_Sprint/message/3871
>
> It worked well, but I was not able to find an appropriate box for the ATS-3b + display combo and at the end I decided as Mike W1MT once commented, that the ATS-3b really wants to live in the Altoids tin.
>
> Anyway, the display is cheap, the three shift registers as well and the software modification is not that difficult, I think it is still part of my alternate ATS-3b firmware, only switched off. The firmware has to flip the polarity of all display pins cca. 50x per second.
>
> 73, Vojtech OK1IAK, AB2ZA
>
>
> --- In AT_Sprint@yahoogroups.com, "wheeler2roh" <wayne.wheeler@> wrote:
> >
> > I'm one of the folks that will have to wait for the Steve's next MTR kit run (please do Steve!), but in the mean time I've been going over the specs and have enjoying hearing about early builder experiences.
> >
> > Was wondering folks thoughts on upgrading the single digit display to 3 or 4 digits. 1st would involve MPS430 code changes (Steve has provided base Project files (I haven't yet worked out if the 430 could even drive a 3 digit display), and there would be some hardware mods. A "power save" timer could keep extra current drain at a minimum.
> >
> >
> > Thoughts?
> >
> > 73
> > Wayne
> > W6AHH
> >
>

9215. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 02:39:01 UTC
From: David
Topic: 9175 Message: 9215

Sorry to give you the bad news Steve but I have just reflashed my MTR with the latest code and now my 40m-20m rig thinks it is a 80m-20m rig! The download verified ok so it probably is a real bug.
Symptoms are:
1. When the lower band is selected, an 8 is displyed/anunciated.
2. When freq is queried it displys/anunciates 5600

I have not tried to tx to confirm DDS freq but believe it will probably be 3.560 kHz.

I'm trawling through the code with WinDiff tring to divine the statements relating to the band detection.

Regards, dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Okay,nothing too serious this time.
>
> 1. It is still possible to tune past the lower tuning limits and RIT limits, without warning.
>
> I thought I fixed this, but turns out I only reduced the chance of it happening by 50%. If there is an odd mumber in the 100 Hz digit when fast tune mode starts, the lower limit won't get detected. Therefore, if your operating near the band edge, check the freq before transmitting or use single step tuning.
>
> 2. 80M band isn't detected. This is only an issue for a few and thier getting new chips.
>
> 3. If the rig is in Straight key mode and you do a setup save, it will remain in SK mode forever. Well, not quite forever, as you can clear it if you want. That is done by powering the rig up with the MENU button held closed. That will clear the options flags and the start up freq registers. Then do another set up save. Calibration data is not affected.
>
> I was going to change that so the SK flag is always cleared on power up or before a setup save, but decided some might want to leave it that way, so it is now a feature.
>
> For those who can re-flash thier processor, the latest source code is in the MTR/IAR folder.
>
> Man, this better be the end of this!
>
> 72, Steve KD1JV
>

9216. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 06:01:11 UTC
From: David
Topic: 9175 Message: 9216

An update,
I checked the voltage on the CPU pin and it was fine, 40m gave me 2.2688V (just a smidgen high, should be 2.25V). Anyway the old code that worked tested the voltage against the value 0380h which worked for me (I don't have 80m, just 40m & 20m)and the new code uses 03A0h and above for 80m and 02A0h and above for 40m so after a quick flick through the manual for the CPU I found the ADC is 10 bit (ie 03FFh full scale) and it is set up in the code to use an internal 2.5V reference. So my 40m voltage of 2.2688V gives me 03A0h and the new code takes that as being 80m (jump to 80m setup if greater than or equal to 03A0h). Anyway since my MTR only has 20m & 40m I just uped the value to 03C0h and rebuilt the code, worked like a treat!
All the best, Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, "David" <djblunn@...> wrote:
>
> Sorry to give you the bad news Steve but I have just reflashed my MTR with the latest code and now my 40m-20m rig thinks it is a 80m-20m rig! The download verified ok so it probably is a real bug.
> Symptoms are:
> 1. When the lower band is selected, an 8 is displyed/anunciated.
> 2. When freq is queried it displys/anunciates 5600
>
> I have not tried to tx to confirm DDS freq but believe it will probably be 3.560 kHz.
>
> I'm trawling through the code with WinDiff tring to divine the statements relating to the band detection.
>
> Regards, dave VK2DDJ
>
> --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@> wrote:
> >
> > Okay,nothing too serious this time.
> >
> > 1. It is still possible to tune past the lower tuning limits and RIT limits, without warning.
> >
> > I thought I fixed this, but turns out I only reduced the chance of it happening by 50%. If there is an odd mumber in the 100 Hz digit when fast tune mode starts, the lower limit won't get detected. Therefore, if your operating near the band edge, check the freq before transmitting or use single step tuning.
> >
> > 2. 80M band isn't detected. This is only an issue for a few and thier getting new chips.
> >
> > 3. If the rig is in Straight key mode and you do a setup save, it will remain in SK mode forever. Well, not quite forever, as you can clear it if you want. That is done by

powering the rig up with the MENU button held closed. That will clear the options flags and the start up freq registers. Then do another set up save. Calibration data is not affected.
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> > I was going to change that so the SK flag is always cleared on power up or before a setup save, but decided some might want to leave it that way, so it is now a feature.
> >
> > For those who can re-flash thier processor, the latest source code is in the MTR/IAR folder.
> >
> > Man, this better be the end of this!
> >
> > 72, Steve KD1JV
> >
>

9217. ATS 3b.1 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 10:38:57 UTC
From: n1rx
Topic: 9217 Message: 9217

There's a built ATS-3b.1 on eBay right now.

http://www.ebay.com/itm/ATS-3B-1-QRP-POCKET-TRANSCEIVER-/290716384423?pt=LH_DefaultDomain_0&hash=item43b00bfca7

Not mine, but thought I'd point it out. It appears to be nicely made, with some really slick Altoids labelling done by the builder.

72,
Bruce, N1RX

9218. RE: ATS-4 GOT ONE AND LIKE SOME INSIGHT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 01:59:56 UTC
From: harry l
Topic: 9218 Message: 9218

Hi Group,

Just received a ATS-4, 2010 vintage, in trade for a KX-1. No issues with the KX-1. Awesome, but pricey, package. But since I do nothing but trades I had little into it.

In any case I have this little jewel and will be firing it up tonight and learning the ends and outs of it. My long term goal is to play PSK31 and RTTY with peanut power in the field using a PDA or if I can get it to work, my old HTC phone that is running Windows 6.1 mobile. But first thing first... Not sure how many made. I get the feeling not many so reviews, unlike the KX-1, are far and few between. So any reviews from the group will be greatly appreciated. Next hints on using and getting around would be nice. Hidden features? Or just operating hints.

What I can see so far and the info sent is this. The radio is smaller and lighter the the KX-1 and has 80-15 up and running. The previous owner sent the radio to Dale-WC7S for a tune up and a mod. The TX is hot. 6 and 7 watts out and he wanted to make sure he was 5 or slightly less watts on all bands so a toggle switch was added. (a tiny one). The RX was tuned and according to the write up the radio is .15uv on all bands. WOW! Might give my K2 a run for it's money. In general the radio looks great....Now to fire it up and wait for any and all feedback on the radio, maybe using PSK/RTTY if anyone has. Bugs and funnies I need to look out for and just general information.

Thank you one and all

73
Harry K7ZOV

9219. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 13:56:09 UTC
From: Bob Confrey
Topic: 9175 Message: 9219

I built the MTR for 40/80 also....Tried the new chip and came up with
same results. Rig stays on 80M, will not switch to 40. Can't verify
this but it seems that the tuning rate may
stay at 10Hz. I know I hold the tune up button a very long time and
only get a small freq change.....Can't confirm this....I
I think we are out of luck until Steve returns....it will be a few
weeks.....Bob...EDJ....

On Mon, May 21, 2012 at 10:39 PM, David <djblunn@...> wrote:
> Sorry to give you the bad news Steve but I have just reflashed my MTR with the latest
code and now my 40m-20m rig thinks it is a 80m-20m rig! The download verified ok so it
probably is a real bug.
> Symptoms are:
> 1. When the lower band is selected, an 8 is displyed/anunciated.
> 2. When freq is queried it displys/anunciates 5600
>
> I have not tried to tx to confirm DDS freq but believe it will probably be 3.560 kHz.
>
> I'm trawling through the code with WinDiff tring to divine the statements relating to the
band detection.
>
> Regards, dave VK2DDJ
>
> --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>>
>> Okay,nothing too serious this time.
>>
>> 1. It is still possible to tune past the lower tuning limits and RIT limits, without
warning.
>>
>> I thought I fixed this, but turns out I only reduced the chance of it happening by 50%.
If there is an odd mumber in the 100 Hz digit when fast tune mode starts, the lower limit
won't get detected. Therefore, if your operating near the band edge, check the freq before
transmitting or use single step tuning.
>>
>> 2. 80M band isn't detected. This is only an issue for a few and thier getting new chips.
>>
>> 3. If the rig is in Straight key mode and you do a setup save, it will remain in SK mode
forever. Well, not quite forever, as you can clear it if you want. That is done by powering
the rig up with the MENU button held closed. That will clear the options flags and the
start up freq registers. Then do another set up save. Calibration data is not affected.
>>
>> I was going to change that so the SK flag is always cleared on power up or before a
setup save, but decided some might want to leave it that way, so it is now a feature.
>>

>> For those who can re-flash thier processor, the latest source code is in the MTR/IAR folder.
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>> 72, Steve KD1JV
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>
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> Yahoo! Groups Links
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9220. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 14:38:04 UTC
From: Randy Moore
Topic: 9175 Message: 9220

FWIW, Steve re-flashed my processor a couple of weeks ago and its working fine switching between 40/20. Not sure about the tuning speed. I'll check that tonight. Did Steve provide newer firmware since he did the mass-reflashing?

73,
Randy, KS4L

On Tue, May 22, 2012 at 8:56 AM, Bob Confrey <bobc784@...> wrote:

> **
>
>
> I built the MTR for 40/80 also....Tried the new chip and came up with
> same results. Rig stays on 80M, will not switch to 40. Can't verify
> this but it seems that the tuning rate may
> stay at 10Hz. I know I hold the tune up button a very long time and
> only get a small freq change.....Can't confirm this....I
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> On Mon, May 21, 2012 at 10:39 PM, David <djblunn@...> wrote:
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> > I have not tried to tx to confirm DDS freq but believe it will probably
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> statements relating to the band detection.
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> > Regards, dave VK2DDJ
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> > --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
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> >>
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> limits, without warning.
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> >> I thought I fixed this, but turns out I only reduced the chance of it
> happening by 50%. If there is an odd mumber in the 100 Hz digit when fast

> tune mode starts, the lower limit won't get detected. Therefore, if your
> operating near the band edge, check the freq before transmitting or use
> single step tuning.
> >>
> >> 2. 80M band isn't detected. This is only an issue for a few and thier
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> >>
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> you want. That is done by powering the rig up with the MENU button held
> closed. That will clear the options flags and the start up freq registers.
> Then do another set up save. Calibration data is not affected.
> >>
> >> I was going to change that so the SK flag is always cleared on power up
> or before a setup save, but decided some might want to leave it that way,
> so it is now a feature.
> >>
> >> For those who can re-flash thier processor, the latest source code is
> in the MTR/IAR folder.
> >>
> >> Man, this better be the end of this!
> >>
> >> 72, Steve KD1JV
> >>
> >
> >
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> > ------------------------------------
> >
> > Yahoo! Groups Links
>

9221. SN 018 In Light Of [Re: [AT_Sprint] Re: MTR - a few more little bugs...]

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 15:12:45 UTC
From: Jonathan
Topic: 9221 Message: 9221

SN018, after a couple dozen pre-dawn, kids-sleeping, soldering sessions... has sputtered to life~! I fired it up with the old U10 in place and got a familiar "..._" blaring from my RatShack mini-amp. Sounds like I should solder Steve's replacement "two yellow dot" chip in, rather than trying to run the updater. ...for now.
Anyway, she lives! Thanks, Steve, for another awesome microscopic transceiver!
Jonathan KC7FYS

9222. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 15:16:20 UTC
From: Bob Confrey
Topic: 9175 Message: 9222

Dave,
I'd be willing to try rebuilding the code on my end too but will need some help setting the compiler up. Thats mainly why I did not go the reflash route. But since Steve will not be back for weeks I'll give it a try. I done this stuff before but may need a few tips from you if possible.....If we need to take this off line, contact me: bobc784gmail.com...TNX...

On Tue, May 22, 2012 at 2:01 AM, David <djblunn@...> wrote:
> An update,
> I checked the voltage on the CPU pin and it was fine, 40m gave me 2.2688V (just a smidgen high, should be 2.25V). Anyway the old code that worked tested the voltage against the value 0380h which worked for me (I don't have 80m, just 40m & 20m)and the new code uses 03A0h and above for 80m and 02A0h and above for 40m so after a quick flick through the manual for the CPU I found the ADC is 10 bit (ie 03FFh full scale) and it is set up in the code to use an internal 2.5V reference. So my 40m voltage of 2.2688V gives me 03A0h and the new code takes that as being 80m (jump to 80m setup if greater than or equal to 03A0h). Anyway since my MTR only has 20m & 40m I just uped the value to 03C0h and rebuilt the code, worked like a treat!
> All the best, Dave VK2DDJ
>
> --- In AT_Sprint@yahoogroups.com, "David" <djblunn@...> wrote:
>>
>> Sorry to give you the bad news Steve but I have just reflashed my MTR with the latest code and now my 40m-20m rig thinks it is a 80m-20m rig! The download verified ok so it probably is a real bug.
>> Symptoms are:
>> 1. When the lower band is selected, an 8 is displyed/anunciated.
>> 2. When freq is queried it displys/anunciates 5600
>>
>> I have not tried to tx to confirm DDS freq but believe it will probably be 3.560 kHz.
>>
>> I'm trawling through the code with WinDiff tring to divine the statements relating to the band detection.
>>
>> Regards, dave VK2DDJ
>>
>> --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@> wrote:
>> >
>> > Okay,nothing too serious this time.
>> >
>> > 1. It is still possible to tune past the lower tuning limits and RIT limits, without warning.
>> >
>> > I thought I fixed this, but turns out I only reduced the chance of it happening by

50%. If there is an odd mumber in the 100 Hz digit when fast tune mode starts, the lower limit won't get detected. Therefore, if your operating near the band edge, check the freq before transmitting or use single step tuning.
>> >
>> > 2. 80M band isn't detected. This is only an issue for a few and thier getting new chips.
>> >
>> > 3. If the rig is in Straight key mode and you do a setup save, it will remain in SK mode forever. Well, not quite forever, as you can clear it if you want. That is done by powering the rig up with the MENU button held closed. That will clear the options flags and the start up freq registers. Then do another set up save. Calibration data is not affected.
>> >
>> > I was going to change that so the SK flag is always cleared on power up or before a setup save, but decided some might want to leave it that way, so it is now a feature.
>> >
>> > For those who can re-flash thier processor, the latest source code is in the MTR/IAR folder.
>> >
>> > Man, this better be the end of this!
>> >
>> > 72, Steve KD1JV
>> >
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> Yahoo! Groups Links
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9223. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 15:32:54 UTC
From: Jonathan
Topic: 9175 Message: 9223

Bob and others,

Seems like programming issues would be very ON-topic, at least as far as many our interest is concerned. I'd like to be privy to that conversation. Unless anyone objects, please conduct it **on** list if you please.
Jonathan KC7FYS

9224. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 16:11:29 UTC
From: jgaffke
Topic: 9175 Message: 9224

Might be easier for some to adjust resistor values
than to reflash the MSP430
Reflashing with IAR under MSWindows was fairly straightforward,
but read message 9176 first, and maybe 9179.
Let us know if you learn anything.
Jerry, KE7ER

9225. MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 16:13:05 UTC
From: Michael O'Bannon
Topic: 9175 Message: 9225

>Seems like programming issues would be very ON-topic, at least as far as many our interest is concerned. I'd like to be
privy to that conversation. Unless anyone objects, please conduct it
on list if you please.

I'm also interested in the programming issues for this rig. Please
keep the comments on-list.

Thanks,
Michael KD4SGN

9226. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 16:18:18 UTC
From: jgaffke
Topic: 9175 Message: 9226

Also, as stated in message 8950:
I downloaded the "code size limited" IAR software from
http://processors.wiki.ti.com/index.php/IAR_Embedded_Workbench_for_TI_MSP430
Just that compressed install file is 134 MBytes.

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Might be easier for some to adjust resistor values
> than to reflash the MSP430
> Reflashing with IAR under MSWindows was fairly straightforward,
> but read message 9176 first, and maybe 9179.
> Let us know if you learn anything.
> Jerry, KE7ER
>

9227. MTR s/n 131 alive! :-)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 14:23:29 UTC
From: Colin
Topic: 9227 Message: 9227

Just would like to share my success with the group - my MTR s/n 131 fired up for it's initial power-on check without any problem. The sound of '4' in the headphones put a large smile on my face!

I messed up my first Altoids tin, the jack holes were too near to the PCB, I have another spare tin, so the metal work will commence again soon.

So glad to have the smoke test out of the way!

72
:-)

Colin
M0CGH

9228. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 17:10:43 UTC
From: Bob Confrey
Topic: 9175 Message: 9228

On-topic for sure....It would be good if we all (at least those who choose to) could reflash. I know I'm now on my third micro and the pads have about had it. I'm happy to include the list for these topics....Bob...WA1EDJ.....

On Tue, May 22, 2012 at 11:32 AM, Jonathan <kc7fys@...> wrote:

>
>
> Bob and others,
> Seems like programming issues would be very ON-topic, at least as far as
> many our interest is concerned. I'd like to be privy to that conversation.
> Unless anyone objects, please conduct it **on** list if you please.
> Jonathan KC7FYS
>
>
>
>
>

9229. Re: MTR #55 first SOTA activation.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 19:24:00 UTC
From: Mike
Topic: 9213 Message: 9229

Thanks for the sota qso from G/CE-001, my first mtr to mtr qso, your mtr with efhw a solid 599 in Suffolk, a super signal.
vy 72/73 Mike g0bpu.

9230. Re: MTR s/n 131 alive! :-)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 19:00:58 UTC
From: Mike
Topic: 9227 Message: 9230

looking good Colin, good luck with the metal work.

had my first mtr to mtr qso yesterday with Pete G4ISJ/P on a sota.

72/73 Mike g0bpu

9231. A Mil Spec MTR Enclosure?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 19:47:49 UTC
From: wheeler2roh
Topic: 9231 Message: 9231

The Mity Box is shown here:

http://www.americanmorse.com/mitybox.htm

This was manufactured for the SWL Rockmite, but I was thinking of using it for the MTR.

I believe the Rockmite PCB is 2x2.5" and the MTR is 2x3"

Maybe the MTR would just fit with some rounding of the PCB corners? Looking at images with the Rockmite in the box, it seems there would just be enough room.

Would have to do something different with the antenna jack so close to the Toroids. Might also be an issue of the band switches going through the aluminum base far enough.

This would sure be a tough box for SOTA though!

Does this look workable?

9232. Re: A Mil Spec MTR Enclosure?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-22 22:57:35 UTC
From: n1rx
Topic: 9231 Message: 9232

A better option would be the AA1, by the same machine company:

http://www.americanmorse.com/aa1.htm

It's a bit bigger, and would be a much better fit. You could possibly even fit a 2s Li-poly battey inside with the MTR. On both the MityBox and the AA1, you may have to replace the switches with slightly longer ones, or use a pen tip or similar tool to activate them. This is due to the increase wall thickness of the case.

73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "wheeler2roh" <wayne.wheeler@...> wrote:
>
> The Mity Box is shown here:
>
> http://www.americanmorse.com/mitybox.htm
>
> This was manufactured for the SWL Rockmite, but I was thinking of using it for the MTR.
>
> I believe the Rockmite PCB is 2x2.5" and the MTR is 2x3"
>
> Maybe the MTR would just fit with some rounding of the PCB corners? Looking at images with the Rockmite in the box, it seems there would just be enough room.
>
> Would have to do something different with the antenna jack so close to the Toroids. Might also be an issue of the band switches going through the aluminum base far enough.
>
> This would sure be a tough box for SOTA though!
>
> Does this look workable?
>

9233. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 00:25:27 UTC
From: David
Topic: 9175 Message: 9233

Hi all,

just threw together a spreadsheet to see what happens as you relax the tolerance of the band select resistors. Anyway this leads me to believe the optimum hex values in the code to test for which band resistor is selected would be 03ECh for 80m, 030Ah for 40m and 0207h for 30m the 20m range is not tested as such, it is selected as the only remaining option once the others don't match.
Incidently, the original bug was caused by the code testing for 80m by looking for a number greater than or equal to 0400h, unfortuneatly the A/D maxed out at 0377h so could never satisfy that condition.

Bob, let me know what you find about the tuning rate.

Randy, my problem was that the resistor was 0.8% high in tolerance so if your resistor is closer or even low in value there will be no problem. The values given about are based on a "worst case" of 9.229% error on the 80/40 resistors. The other values were chosen the same way by opening up the tolerance, the 20/30m selection could handle a 23% error.

Jerry, yes perhaps changing resistor might be easier, until a pad comes away with the tip of the iron, like my mum used to say..it's a bit of fun until someone looses an eye! Once you get the reflashing setup working there is no way you would warm the iron as downloading is sooo much easier.

The problem I had with code in the files section:
1. file extesions channged to .txt and over wrote each other, dowload one at a time and fix the file extesion before dowload the next.
2. In the Project->Options->Debugger dialog box make sure the FET Debugger is selected, not the emulator. Also under the FET Debugger dialog box ensure the "Texas Instrument USB-IF" connection is selected. While you are in that dialog, check the "Verify download" in the "Download" tab, takes a little longer but is reassuring to know it was successful.
3. Don't forget to remove the IC from the DIP socket, you want to send the bits down the cable to the MTR not program the chip in the socket.

Regards, Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, "David" <djblunn@...> wrote:
>
> An update,
> I checked the voltage on the CPU pin and it was fine, 40m gave me 2.2688V (just a smidgen high, should be 2.25V). Anyway the old code that worked tested the voltage against the value 0380h which worked for me (I don't have 80m, just 40m & 20m)and the new code uses 03A0h and above for 80m and 02A0h and above for 40m so after a quick flick through the manual for the CPU I found the ADC is 10 bit (ie 03FFh full scale) and it is set up in the code to use an internal 2.5V reference. So my 40m voltage of 2.2688V gives me 03A0h and the new code takes that as being 80m (jump to 80m setup if greater than or equal to 03A0h). Anyway since my MTR only has 20m & 40m I just uped the value to 03C0h and rebuilt the code, worked like a treat!

> All the best, Dave VK2DDJ
>
> --- In AT_Sprint@yahoogroups.com, "David" <djblunn@> wrote:
> >
> > Sorry to give you the bad news Steve but I have just reflashed my MTR with the latest code and now my 40m-20m rig thinks it is a 80m-20m rig! The download verified ok so it probably is a real bug.
> > Symptoms are:
> > 1. When the lower band is selected, an 8 is displyed/anunciated.
> > 2. When freq is queried it displys/anunciates 5600
> >
> > I have not tried to tx to confirm DDS freq but believe it will probably be 3.560 kHz.
> >
> > I'm trawling through the code with WinDiff tring to divine the statements relating to the band detection.
> >
> > Regards, dave VK2DDJ
> >
> > --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@> wrote:
> > >
> > > Okay,nothing too serious this time.
> > >
> > > 1. It is still possible to tune past the lower tuning limits and RIT limits, without warning.
> > >
> > > I thought I fixed this, but turns out I only reduced the chance of it happening by 50%. If there is an odd mumber in the 100 Hz digit when fast tune mode starts, the lower limit won't get detected. Therefore, if your operating near the band edge, check the freq before transmitting or use single step tuning.
> > >
> > > 2. 80M band isn't detected. This is only an issue for a few and thier getting new chips.
> > >
> > > 3. If the rig is in Straight key mode and you do a setup save, it will remain in SK mode forever. Well, not quite forever, as you can clear it if you want. That is done by powering the rig up with the MENU button held closed. That will clear the options flags and the start up freq registers. Then do another set up save. Calibration data is not affected.
> > >
> > > I was going to change that so the SK flag is always cleared on power up or before a setup save, but decided some might want to leave it that way, so it is now a feature.
> > >
> > > For those who can re-flash thier processor, the latest source code is in the MTR/IAR folder.
> > >
> > > Man, this better be the end of this!
> > >
> > > 72, Steve KD1JV
> > >
> >
>

9234. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 00:31:54 UTC
From: n1rx
Topic: 9175 Message: 9234

If the resistor value needed to be trimmed downward to work properly, one option would be to add another high-value resistor across it to reduce it to the appropriate overall value. This would eliminate risk to the pads on the board.

Your modification of the firmware obviously works as well. You may just need to remember to mod the next version (if there ever is one).

-Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "David" <djblunn@...> wrote:
> Randy, my problem was that the resistor was 0.8% high in tolerance so if your resistor is closer or even low in value there will be no problem. The values given about are based on a "worst case" of 9.229% error on the 80/40 resistors. The other values were chosen the same way by opening up the tolerance, the 20/30m selection could handle a 23% error.
>
> Jerry, yes perhaps changing resistor might be easier, until a pad comes away with the tip of the iron, like my mum used to say..it's a bit of fun until someone looses an eye! Once you get the reflashing setup working there is no way you would warm the iron as downloading is sooo much easier.

9235. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 00:40:26 UTC
From: Michael Harnage
Topic: 9175 Message: 9235

You shouldn't have to remove IC. Just disconnect the header pins and take the lines from the "top" of the board.

-mike/w1mt

>_____
>
>3. Don't forget to remove the IC from the DIP socket, you want to send the bits down the cable to the MTR not program the chip in the socket.
>
>

9236. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 01:49:03 UTC
From: David
Topic: 9175 Message: 9236

Yep, that will work too, I soldered wires onto the pins on the edge of the board. So I needed to remove the chip.

--- In AT_Sprint@yahoogroups.com, Michael Harnage <w1mt@...> wrote:
>
> You shouldn't have to remove IC. Just disconnect the header pins and take the lines from the "top" of the board.
>
> -mike/w1mt
>
>
>
>
> >_____
> >
> >3. Don't forget to remove the IC from the DIP socket, you want to send the bits down the cable to the MTR not program the chip in the socket.
> >
> >
>

9237. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 01:54:40 UTC
From: David
Topic: 9175 Message: 9237

Hi Bob, regarding the fast tune rate, I checked the code and it appears Steve has reduced the fast tune rate in the latest version from 200 down to 100. The normal rate is 50. Could this be what you are seeing?

Regards, Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@...> wrote:
>
> I built the MTR for 40/80 also....Tried the new chip and came up with
> same results. Rig stays on 80M, will not switch to 40. Can't verify
> this but it seems that the tuning rate may
> stay at 10Hz. I know I hold the tune up button a very long time and
> only get a small freq change.....Can't confirm this....I
> I think we are out of luck until Steve returns....it will be a few
> weeks.....Bob...EDJ....
>
> On Mon, May 21, 2012 at 10:39 PM, David <djblunn@...> wrote:
> > Sorry to give you the bad news Steve but I have just reflashed my MTR with the latest code and now my 40m-20m rig thinks it is a 80m-20m rig! The download verified ok so it probably is a real bug.
> > Symptoms are:
> > 1. When the lower band is selected, an 8 is displyed/anunciated.
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> >
> > I have not tried to tx to confirm DDS freq but believe it will probably be 3.560 kHz.
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> > I'm trawling through the code with WinDiff tring to divine the statements relating to the band detection.
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> > Regards, dave VK2DDJ
> >
> > --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@> wrote:
> >>
> >> Okay,nothing too serious this time.
> >>
> >> 1. It is still possible to tune past the lower tuning limits and RIT limits, without warning.
> >>
> >> I thought I fixed this, but turns out I only reduced the chance of it happening by 50%. If there is an odd mumber in the 100 Hz digit when fast tune mode starts, the lower limit won't get detected. Therefore, if your operating near the band edge, check the freq before transmitting or use single step tuning.
> >>
> >> 2. 80M band isn't detected. This is only an issue for a few and thier getting new chips.

> >>
> >> 3. If the rig is in Straight key mode and you do a setup save, it will remain in SK mode forever. Well, not quite forever, as you can clear it if you want. That is done by powering the rig up with the MENU button held closed. That will clear the options flags and the start up freq registers. Then do another set up save. Calibration data is not affected.
> >>
> >> I was going to change that so the SK flag is always cleared on power up or before a setup save, but decided some might want to leave it that way, so it is now a feature.
> >>
> >> For those who can re-flash thier processor, the latest source code is in the MTR/IAR folder.
> >>
> >> Man, this better be the end of this!
> >>
> >> 72, Steve KD1JV
> >>
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> > Yahoo! Groups Links
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9238. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 02:06:16 UTC
From: Jonathan
Topic: 9175 Message: 9238

Excellent notes on the programmer. Thanks.
I found the ATS3B programming process quite obtuse. It helps to have each step described and nothing assumed.
Jonathan KC7FYS

9239. Backpacking stove / power generator

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 02:51:44 UTC
From: Yannick (XV4Y)
Topic: 9239 Message: 9239

Hi,

Sorry if this information is a dupe, but I found it interesting to share :
http://radioartisan.wordpress.com/2012/05/20/backpacking-power/

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

9240. Re: [AT_Sprint] Backpacking stove / power generator

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 03:18:59 UTC
From: Paul Mateer
Topic: 9239 Message: 9240

Very nice! One problem.....taken from their website:

Will the Homestove be available for purchase? What is the estimated cost?
<http://biolitestove.com/campstove/support/#>

The HomeStove will be in large-scale pilot programs in India and Africa
through 2012. Our focus is on making it available for retail sale in the
developing world first. There are not currently plans to make it available
in the U.S.

On Tue, May 22, 2012 at 9:51 PM, Yannick (XV4Y) <yannick.devos@...>wrote:

> **
>
>
> Hi,
>
> Sorry if this information is a dupe, but I found it interesting to share :
> http://radioartisan.wordpress.com/2012/05/20/backpacking-power/
>
> 73,
> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
> http://www.qslwatch.com/
>
>
>

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

9241. Re: [AT_Sprint] Backpacking stove / power generator

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 03:21:54 UTC
From: Paul Mateer
Topic: 9239 Message: 9241

ok...now I'm confused. Maybe they ARE shipping to the US now!!!

"The CampStove is $129 US and can be purchased on the website, though new orders currently aren’t shipping until July."

On Tue, May 22, 2012 at 10:18 PM, Paul Mateer <paul.aa9gg@...> wrote:

> Very nice! One problem.....taken from their website:
>
> Will the Homestove be available for purchase? What is the estimated cost?
> <http://biolitestove.com/campstove/support/#>
>
> The HomeStove will be in large-scale pilot programs in India and Africa
> through 2012. Our focus is on making it available for retail sale in the
> developing world first. There are not currently plans to make it available
> in the U.S.
>
>
> On Tue, May 22, 2012 at 9:51 PM, Yannick (XV4Y) <yannick.devos@...>wrote:
>
>> **
>>
>>
>> Hi,
>>
>> Sorry if this information is a dupe, but I found it interesting to share :
>> http://radioartisan.wordpress.com/2012/05/20/backpacking-power/
>>
>> 73,
>> Yan.
>> ---
>> Yannick DEVOS - XV4Y
>> http://xv4y.radioclub.asia/
>> http://varc.radioclub.asia/
>> http://www.qslwatch.com/
>>
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>>
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>
>
> --
> Paul Mateer, AA9GG
> Elan Engineering Corp.
> www.elanengr.com
> NAQCC 3123, SKCC 4628, FPQRP 2003

>

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

9242. Re: ATS 3b.1 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 05:41:19 UTC
From: Tim Goodrich
Topic: 9217 Message: 9242

Does anyone know where I can get the graphic file like the one that's posted on ebay? I'd like to print that and put it on mine.

Thanks,

Tim

K6TW

9243. Re: ATS 3b.1 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 10:33:30 UTC
From: n1rx
Topic: 9217 Message: 9243

Why don't you contact the guy selling it? His callsign is on the auction page. -Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Tim Goodrich" <tim@...> wrote:
>
> Does anyone know where I can get the graphic file like the one that's posted
> on ebay? I'd like to print that and put it on mine.
>
>
>
> Thanks,
>
> Tim
>
> K6TW
>

9244. RE: [AT_Sprint] Re: ATS 3b.1 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 11:47:55 UTC
From: Jake, ON4YZ
Topic: 9217 Message: 9244

>> Why don't you contact the guy selling it

Hi,

That's what I did. Here is the answer

Hello Jake! The design is by kd1jv/Steve Weber. He can be contacted via the A.T.Sprint Yahoo Group. I hope that helps. TNX and 73.

- wd8ioe

73 de Jake - on4yz

9245. Re: [AT_Sprint] Backpacking stove / power generator

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 12:07:43 UTC
From: Steven Carr
Topic: 9239 Message: 9245

they have two versions...a bigger one (the HomeStove) intended for use
in 3rd world homes, and a smaller version (the CampStove) intended for
backpackers.

On 05/22/2012 11:21 PM, Paul Mateer wrote:
>
> ok...now I'm confused. Maybe they ARE shipping to the US now!!!
>
> "The CampStove is $129 US and can be purchased on the website, though
> new orders currently aren?t shipping until July."
>
> On Tue, May 22, 2012 at 10:18 PM, Paul Mateer <paul.aa9gg@...
> <mailto:paul.aa9gg@...>> wrote:
>
> Very nice! One problem.....taken from their website:
>
> Will the Homestove be available for purchase? What is the
> estimated cost? <http://biolitestove.com/campstove/support/#>
>
> The HomeStove will be in large-scale pilot programs in India and
> Africa through 2012. Our focus is on making it available for
> retail sale in the developing world first. There are not currently
> plans to make it available in the U.S.
>
>
>
> On Tue, May 22, 2012 at 9:51 PM, Yannick (XV4Y)
> <yannick.devos@... <mailto:yannick.devos@...>> wrote:
>
> Hi,
>
> Sorry if this information is a dupe, but I found it
> interesting to share :
> http://radioartisan.wordpress.com/2012/05/20/backpacking-power/
>
> 73,
> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
> http://www.qslwatch.com/
>
>
>

>
> --
> Paul Mateer, AA9GG
> Elan Engineering Corp.
> www.elanengr.com <http://www.elanengr.com>
> NAQCC 3123, SKCC 4628, FPQRP 2003
>
>
>
>
> --
> Paul Mateer, AA9GG
> Elan Engineering Corp.
> www.elanengr.com <http://www.elanengr.com>
> NAQCC 3123, SKCC 4628, FPQRP 2003
>

9246. Re ATS 3b.1 on eBay graphic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 13:06:51 UTC
From: cloud runner
Topic: 9246 Message: 9246

I, too, looked at that with interest. It appeared to be printed on a piece of plastic similar to credit card plastic. Or is it simply laminated???

Fred - kt5x

Does anyone know where I can get the graphic file like the one that's posted on ebay? I'd like to print that and put it on mine.

Thanks,

Tim

K6TW

9247. Re: ATS 3b.1 on eBay graphic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 13:10:47 UTC
From: cloud runner
Topic: 9247 Message: 9247

He didn't understand the question. That answer is for the design of the radio.

fred

>> Why don't you contact the guy selling it

Hi,

That's what I did. Here is the answer

Hello Jake! The design is by kd1jv/Steve Weber. He can be contacted via the A.T.Sprint Yahoo Group. I hope that helps. TNX and 73.

- wd8ioe

73 de Jake - on4yz

9248. RE: [AT_Sprint] Re: ATS 3b.1 on eBay graphic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 13:15:50 UTC
From: James Rodenkirch
Topic: 9247 Message: 9248

Hah - I thought it was for the design of the top cover graphics....shows you how little I pay attention, Fred....,Jim R. K9JWV

To: AT_Sprint@yahoogroups.com
From: just.one.hill@...
Date: Wed, 23 May 2012 07:10:47 -0600
Subject: [AT_Sprint] Re: ATS 3b.1 on eBay graphic

He didn't understand the question. That answer is
for the design of the radio.

fred

>> Why don't you contact the guy
selling it
Hi,
That’s what I did. Here is
the answer
Hello Jake! The
design is by kd1jv/Steve Weber. He can be contacted via the A.T.Sprint Yahoo
Group. I hope that helps. TNX and 73.
-
wd8ioe
73 de Jake –
on4yz

9249. RE: [AT_Sprint] Re ATS 3b.1 on eBay graphic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 13:33:09 UTC
From: Jake, ON4YZ
Topic: 9246 Message: 9249

Hi again,

Well here is the message I sent to WD8IOE (through eBay message server, because he's not on QRZ.COM and not found by Google) :

Hello,
Jake - ON4YZ here. I like the front panel of your ATS3b very much. Did you design it yourself? Is it avaible in a printable format somewhere. Would you mind to send me a file? The picture from eBay is copyable. I'll appriciate your help.
Very 73 de Jake - ON4YZ

And I got the answer through the same channel (eBay messages server) :

Hello Jake! The design is by kd1jv/Steve Weber. He can be contacted via the A.T.Sprint Yahoo Group. I hope that helps. TNX and 73.

- wd8ioe

It could be that the OM didn't understand my request, but that's all I can do with my poor English.

Would someone else try ?

Fred, I think it's laminated.

73 de Jake - ON4YZ

9250. Re: [AT_Sprint] Re ATS 3b.1 on eBay graphic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 13:37:00 UTC
From: Michael Harnage
Topic: 9246 Message: 9250

I just check the FCC ULS website. Seems WD8IOE is just his ebay name. There is no one asssigned the ham callsign wd8ioe in the USA.

-mike/w1mt

>_____
>
>
>Hi again,
>Well here is the message I sent to WD8IOE (through eBay message server, because he’s not on QRZ.COM and not found by Google) :
>
>
>

9251. Re: [AT_Sprint] Re ATS 3b.1 on eBay graphic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 13:38:34 UTC
From: cloud runner
Topic: 9246 Message: 9251

Well, gee, he ought to have answered the right question! Could Steve have such designs and be holding out on us? ;-) I would think that if he had such a design, some one would have seen it before.

fred

----- Original Message -----
From: Jake, ON4YZ
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, May 23, 2012 7:33 AM
Subject: RE: [AT_Sprint] Re ATS 3b.1 on eBay graphic

Hi again,

Well here is the message I sent to WD8IOE (through eBay message server, because he's not on QRZ.COM and not found by Google) :

Hello,
Jake - ON4YZ here. I like the front panel of your ATS3b very much. Did you design it yourself? Is it avaible in a printable format somewhere. Would you mind to send me a file? The picture from eBay is copyable. I'll appriciate your help.
Very 73 de Jake - ON4YZ

And I got the answer through the same channel (eBay messages server) :

Hello Jake! The design is by kd1jv/Steve Weber. He can be contacted via the A.T.Sprint Yahoo Group. I hope that helps. TNX and 73.

- wd8ioe

It could be that the OM didn't understand my request, but that's all I can do with my poor English.

Would someone else try ?

Fred, I think it's laminated.

73 de Jake - ON4YZ

9252. RE: [AT_Sprint] Re ATS 3b.1 on eBay graphic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 13:43:41 UTC
From: Jake, ON4YZ
Topic: 9246 Message: 9252
Attachments: 1 described; binary payloads are missing from this source WARC

Now I said the pictures on eBay cannot be copied, but I thought I could copy the idea. So for security I made a page copy. Here it is... Enjoy

Jake - ON4YZ

9253. Re: [AT_Sprint] Re ATS 3b.1 on eBay graphic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 13:58:23 UTC
From: cloud runner
Topic: 9246 Message: 9253

try WD8LOE

----- Original Message -----
From: Michael Harnage
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, May 23, 2012 7:37 AM
Subject: Re: [AT_Sprint] Re ATS 3b.1 on eBay graphic

I just check the FCC ULS website. Seems WD8IOE is just his ebay name. There is no one asssigned the ham callsign wd8ioe in the USA.

-mike/w1mt

Hi again,
Well here is the message I sent to WD8IOE (through eBay message server, because he’s not on QRZ.COM and not found by Google) :

9254. Fw: [AT_Sprint] Re ATS 3b.1 on eBay graphic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 14:00:34 UTC
From: cloud runner
Topic: 9254 Message: 9254

No, ur right, it's ioe. everything kinda blurry this morning, batting ohh for two ;-)

fred

----- Original Message -----
From: cloud runner
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, May 23, 2012 7:58 AM
Subject: Re: [AT_Sprint] Re ATS 3b.1 on eBay graphic

try WD8LOE

----- Original Message -----
From: Michael Harnage
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, May 23, 2012 7:37 AM
Subject: Re: [AT_Sprint] Re ATS 3b.1 on eBay graphic

I just check the FCC ULS website. Seems WD8IOE is just his ebay name. There is no one asssigned the ham callsign wd8ioe in the USA.

-mike/w1mt

Hi again,
Well here is the message I sent to WD8IOE (through eBay message server, because he’s not on QRZ.COM and not found by Google) :

9255. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 14:01:30 UTC
From: Bob Confrey
Topic: 9175 Message: 9255

Dave,
That could be...I have not had a chance to really give it a good
look. I typically like to move to the "slow" segment of the CW band
which is a bit away from the default freq.
I noticed that it would take forever to get there even holding the
tune up button for a prolonged time. You are way ahead of me in your
investigations.

On the reflash issue....I got IAR installed but Steve's instructions
did not work for me. I had to set up my own project. The code did
compile with no errors or warnings.
Since in this case the compiler really only needs to find the include
file, I guess it was happy. I'm going to connect the launch pad today
and see if I can reflash.
Once all that works, I'll want to know what to actually change in
Steve's code to fix the 80/40 switching problem....I'll add more later
today!....TNX for the help!.....Bob...EDJ.....

On Tue, May 22, 2012 at 9:54 PM, David <djblunn@...> wrote:
> Hi Bob, regarding the fast tune rate, I checked the code and it appears Steve has reduced the fast tune rate in the latest version from 200 down to 100. The normal rate is 50. Could this be what you are seeing?
>
> Regards, Dave VK2DDJ
>
> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@...> wrote:
>>
>> I built the MTR for 40/80 also....Tried the new chip and came up with
>> same results. Rig stays on 80M, will not switch to 40. Can't verify
>> this but it seems that the tuning rate may
>> stay at 10Hz. I know I hold the tune up button a very long time and
>> only get a small freq change.....Can't confirm this....I
>> I think we are out of luck until Steve returns....it will be a few
>> weeks.....Bob...EDJ....
>>
>> On Mon, May 21, 2012 at 10:39 PM, David <djblunn@...> wrote:
>> > Sorry to give you the bad news Steve but I have just reflashed my MTR with the latest code and now my 40m-20m rig thinks it is a 80m-20m rig! The download verified ok so it probably is a real bug.
>> > Symptoms are:
>> > 1. When the lower band is selected, an 8 is displyed/anunciated.
>> > 2. When freq is queried it displys/anunciates 5600
>> >
>> > I have not tried to tx to confirm DDS freq but believe it will probably be 3.560 kHz.
>> >

>> > I'm trawling through the code with WinDiff tring to divine the statements relating to the band detection.
>> >
>> > Regards, dave VK2DDJ
>> >
>> > --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@> wrote:
>> >>
>> >> Okay,nothing too serious this time.
>> >>
>> >> 1. It is still possible to tune past the lower tuning limits and RIT limits, without warning.
>> >>
>> >> I thought I fixed this, but turns out I only reduced the chance of it happening by 50%. If there is an odd mumber in the 100 Hz digit when fast tune mode starts, the lower limit won't get detected. Therefore, if your operating near the band edge, check the freq before transmitting or use single step tuning.
>> >>
>> >> 2. 80M band isn't detected. This is only an issue for a few and thier getting new chips.
>> >>
>> >> 3. If the rig is in Straight key mode and you do a setup save, it will remain in SK mode forever. Well, not quite forever, as you can clear it if you want. That is done by powering the rig up with the MENU button held closed. That will clear the options flags and the start up freq registers. Then do another set up save. Calibration data is not affected.
>> >>
>> >> I was going to change that so the SK flag is always cleared on power up or before a setup save, but decided some might want to leave it that way, so it is now a feature.
>> >>
>> >> For those who can re-flash thier processor, the latest source code is in the MTR/IAR folder.
>> >>
>> >> Man, this better be the end of this!
>> >>
>> >> 72, Steve KD1JV
>> >>
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9256. Re: [AT_Sprint] Re ATS 3b.1 on eBay graphic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 14:01:45 UTC
From: Michael Goins
Topic: 9246 Message: 9256

Maybe it's just me, but I would be very cautious dealing someone on ebay using what appears to be a ham call to sell ham gear. And I have over 400 transactions there.

Mike, k5wmg

*

*

9257. Re: ATS 3b.1 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 14:15:32 UTC
From: Tim Goodrich
Topic: 9217 Message: 9257

"Why don't you contact the guy selling it? His callsign is on the auction page. -Bruce, N1RX"

Thanks Bruce. However, that's actually the first thing I did and only posted here after receiving a response from the ebay lister that referred me to Steve.

Tim

K6TW

9258. Re: ATS 3b.1 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 14:24:53 UTC
From: N1EU
Topic: 9217 Message: 9258

Tim, have you browsed around the Files section of the Yahoo Group site? There are plenty of labels for the ATS3B in there, just not organized at all. I might start organizing an ATS3B label folder there.

73,
Barry N1EU

9259. Re: ATS 3b.1 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 15:01:38 UTC
From: N1EU
Topic: 9217 Message: 9259

I created a new photo album containing images of the labels available in the Files section:

http://groups.yahoo.com/group/AT_Sprint/photos/album/744936926/pic/list

The photo names correspond to the folder_file names of the label files. It's a work in progress.

Barry N1EU

--- In AT_Sprint@yahoogroups.com, "N1EU" <n1eu.barry@...> wrote:
>
> Tim, have you browsed around the Files section of the Yahoo Group site? There are plenty of labels for the ATS3B in there, just not organized at all. I might start organizing an ATS3B label folder there.
>
> 73,
> Barry N1EU
>

9260. Re: ATS 3b.1 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 15:16:41 UTC
From: Jonathan Haynes
Topic: 9217 Message: 9260

Oh. The label uploaded in my name bears the "80-17 meters" mistake. Please swap out that 17 for a 15. When I made that label I didn't know what direction was up.
Jonathan KC7FYS/7J1AWL

9261. Re: A Mil Spec MTR Enclosure?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 15:29:22 UTC
From: ve3wmb
Topic: 9231 Message: 9261

I have my ATS-3A in an American Morse AA1 enclosure and I have no issues with the switches.

I did however have to enlarge the holes for the paddle / power / headphone, as the jacks didn't protrude far enough due to the extra thickness of the box as compared to an altoids tin. (The plugs wouldn't go in far enough into the jacks without widening the holes in the side of the enclosure to fit the body of the plugs.)

One thing I do like about this enclosure is that I don't have to remove the thumb screws completely to change band modules, just loosen them up. One hole in the lid (bottom) is actually a slot so loosening up the screws allows the lid (bottom) to pivot out of the way (very handy). This is a quick enough procedure that with the MTR inside you could mount the band switches on the other side of the board and switch bands by opening the bottom of the AA1 to slide the switches instead of cutting two more holes in the enclosure.

Michael VE3WMB

P.S. If I recall correctly I also had to slightly bevel a couple of corners of the PCB to fit it into the box.

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
>
> A better option would be the AA1, by the same machine company:
>
> http://www.americanmorse.com/aa1.htm
>
> It's a bit bigger, and would be a much better fit. You could possibly even fit a 2s Li-poly battey inside with the MTR. On both the MityBox and the AA1, you may have to replace the switches with slightly longer ones, or use a pen tip or similar tool to activate them. This is due to the increase wall thickness of the case.
>
> 73,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, "wheeler2roh" <wayne.wheeler@> wrote:
> >
> > The Mity Box is shown here:
> >
> > http://www.americanmorse.com/mitybox.htm
> >
> > This was manufactured for the SWL Rockmite, but I was thinking of using it for the MTR.
> >
> > I believe the Rockmite PCB is 2x2.5" and the MTR is 2x3"
> >
> > Maybe the MTR would just fit with some rounding of the PCB corners? Looking at images with the Rockmite in the box, it seems there would just be enough room.

> >
> > Would have to do something different with the antenna jack so close to the Toroids. Might also be an issue of the band switches going through the aluminum base far enough.
> >
> > This would sure be a tough box for SOTA though!
> >
> > Does this look workable?
> >
>

9262. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 17:18:26 UTC
From: Bob Confrey
Topic: 9175 Message: 9262

Dave,
At lunch time today I got the reflashing setup working. I just recompiled the latest code and attempted download. Appeared to all work...Debug window came up and log said download complete....Now if I can get some specifics on what I need to change in the code, I'll give it a shot....So far, so good!.....TNX....Bob...EDJ...

On Tue, May 22, 2012 at 9:54 PM, David <djblunn@...> wrote:
> Hi Bob, regarding the fast tune rate, I checked the code and it appears Steve has reduced the fast tune rate in the latest version from 200 down to 100. The normal rate is 50. Could this be what you are seeing?
>
> Regards, Dave VK2DDJ
>
> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@...> wrote:
>>
>> I built the MTR for 40/80 also....Tried the new chip and came up with
>> same results. Rig stays on 80M, will not switch to 40. Can't verify
>> this but it seems that the tuning rate may
>> stay at 10Hz. I know I hold the tune up button a very long time and
>> only get a small freq change.....Can't confirm this....I
>> I think we are out of luck until Steve returns....it will be a few
>> weeks.....Bob...EDJ....
>>
>> On Mon, May 21, 2012 at 10:39 PM, David <djblunn@...> wrote:
>> > Sorry to give you the bad news Steve but I have just reflashed my MTR with the latest code and now my 40m-20m rig thinks it is a 80m-20m rig! The download verified ok so it probably is a real bug.
>> > Symptoms are:
>> > 1. When the lower band is selected, an 8 is displyed/anunciated.
>> > 2. When freq is queried it displys/anunciates 5600
>> >
>> > I have not tried to tx to confirm DDS freq but believe it will probably be 3.560 kHz.
>> >
>> > I'm trawling through the code with WinDiff tring to divine the statements relating to the band detection.
>> >
>> > Regards, dave VK2DDJ
>> >
>> > --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@> wrote:
>> >>
>> >> Okay,nothing too serious this time.
>> >>
>> >> 1. It is still possible to tune past the lower tuning limits and RIT limits, without

warning.
>> >>
>> >> I thought I fixed this, but turns out I only reduced the chance of it happening by 50%. If there is an odd mumber in the 100 Hz digit when fast tune mode starts, the lower limit won't get detected. Therefore, if your operating near the band edge, check the freq before transmitting or use single step tuning.
>> >>
>> >> 2. 80M band isn't detected. This is only an issue for a few and thier getting new chips.
>> >>
>> >> 3. If the rig is in Straight key mode and you do a setup save, it will remain in SK mode forever. Well, not quite forever, as you can clear it if you want. That is done by powering the rig up with the MENU button held closed. That will clear the options flags and the start up freq registers. Then do another set up save. Calibration data is not affected.
>> >>
>> >> I was going to change that so the SK flag is always cleared on power up or before a setup save, but decided some might want to leave it that way, so it is now a feature.
>> >>
>> >> For those who can re-flash thier processor, the latest source code is in the MTR/IAR folder.
>> >>
>> >> Man, this better be the end of this!
>> >>
>> >> 72, Steve KD1JV
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9263. Re: [AT_Sprint] Re: MTR #55 first SOTA activation.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 18:34:41 UTC
From: Peter Martin
Topic: 9213 Message: 9263

On Tue, May 22, 2012 at 8:24 PM, Mike <m.r.johnson4715@...> wrote:

> Thanks for the sota qso from G/CE-001, my first mtr to mtr qso, your mtr
> with efhw a solid 599 in Suffolk, a super signal.
> vy 72/73 Mike g0bpu.
>
> Mike,
Thanks for MTR - MTR. You were a big 599!
I've got you recorded which I'll post when I get a moment. In the heat of
the moment I didn't really pay much attention to the "also MTR" !
You were actually almost the first contact except G4SSH very significant
call was easier to pick out of the initial pile up!

CUL
Pete
G4ISJ

9264. Re: ATS 3b.1 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 19:11:33 UTC
From: n1rx
Topic: 9217 Message: 9264

Very interesting, especially since wd8ioe is clearly not his actual call sign. He obviously didn't build it, as then he would know the label was not provided by Steve.

Oh, well. I have always made my own labels. I sometimes print them on the white photo kitchen magnet sheets you can get at office supply houses like Staples. This lets you change the label at will. I have also used the same material to make a "stick-on" cheet sheet that stays inside the tin lid.

73 es GL,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Tim Goodrich" <tim@...> wrote:
>
> "Why don't you contact the guy selling it? His callsign is on the auction
> page. -Bruce, N1RX"
>
>
>
>
>
> Thanks Bruce. However, that's actually the first thing I did and only posted
> here after receiving a response from the ebay lister that referred me to
> Steve.
>
>
>
> Tim
>
> K6TW
>

9265. Re: MTR s/n 131 alive! :-)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-23 21:11:16 UTC
From: Colin
Topic: 9227 Message: 9265

Nice going Mike and Pete! I look forward to having some SOTA QSO's with my MTR very much. It would be nice to work some other MTR's too.

I made further progress today. I made up the power lead and was able to do the intitial calibration. The best solution I could come up with, to calibrate the frequency, was to use a calibrated HP/Agilent Spectrum Analyser locked to an external 10MHz frequency reference. My MTR using this system showed an error of around +50 Hz with the default setting (close enough I reckon!).

The rx filter and BFO settings seemed quite easy to do using the oscilloscope, I noticed two peaks on the BFO trimmer, with one peak being a significant level higher.

As far as I know the rig is now nicely calibrated. I have yet to peak the bandpass filters, haven't thought about how to do it yet. I will probably hook up an antenna and do it by ear.

I'm very impressed with the documentation, somehow it is very detailed but also it's very concise - tells you exactly what you need to know without fuss - Well done Steven - everything about this kit and the support is first class.

Altoids tin is currently at 'work in progress' status!

So thrilled to be able to join in with the ATS/MTR fun!

72
Colin
M0CGH

--- In AT_Sprint@yahoogroups.com,
"Mike" <m.r.johnson4715@...> wrote:
>
>
> looking good Colin, good luck with the metal work.
>
> had my first mtr to mtr qso yesterday with Pete G4ISJ/P on a sota.
>
> 72/73 Mike g0bpu
>

9266. Maiden QSO with MTR #115

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 01:37:03 UTC
From: Randy Moore
Topic: 9266 Message: 9266

Answered a 40m CQ from W4UOR in NC who gave me 579 and said the little MTR sounds great! I'm getting about 2w out at 8.5v supply and about 4w at 11v. Rcvr sounds great!

Board assembly went fine. I do better with and enjoy hand soldering, but had 3 cold joints - 2 on the microprocessor and the output of the audio amp, but they were easy to find and fix. As usual, the mechanical stuff with the Altoids box was more frustrating, and I hate that brittle Teflon-coated wire, which I ended up replacing.

This is my third KD1JV rig, and they all turned out great! Thanks Steve!!!! Hope your hike is going well!

73,
Randy, KS4L

9267. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 02:08:23 UTC
From: David
Topic: 9175 Message: 9267

Hi Bob, I have just uploaded a ZIP file which has the build files (looks like you have that sorted already so you need those) and revised source code (MTR_2.s43) which has my band switching values.

Good luck, Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@...> wrote:
>
> Dave,
> At lunch time today I got the reflashing setup working. I just
> recompiled the latest code and attempted download. Appeared to all
> work...Debug window came up and log said download
> complete....Now if I can get some specifics on what I need to change
> in the code, I'll give it a shot....So far, so
> good!.....TNX....Bob...EDJ...
>
> On Tue, May 22, 2012 at 9:54 PM, David <djblunn@...> wrote:
> > Hi Bob, regarding the fast tune rate, I checked the code and it appears Steve has reduced the fast tune rate in the latest version from 200 down to 100. The normal rate is 50. Could this be what you are seeing?
> >
> > Regards, Dave VK2DDJ
> >
> > --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
> >>
> >> I built the MTR for 40/80 also....Tried the new chip and came up with
> >> same results. Rig stays on 80M, will not switch to 40. Can't verify
> >> this but it seems that the tuning rate may
> >> stay at 10Hz. I know I hold the tune up button a very long time and
> >> only get a small freq change.....Can't confirm this....I
> >> I think we are out of luck until Steve returns....it will be a few
> >> weeks.....Bob...EDJ....
> >>
> >> On Mon, May 21, 2012 at 10:39 PM, David <djblunn@> wrote:
> >> > Sorry to give you the bad news Steve but I have just reflashed my MTR with the latest code and now my 40m-20m rig thinks it is a 80m-20m rig! The download verified ok so it probably is a real bug.
> >> > Symptoms are:
> >> > 1. When the lower band is selected, an 8 is displyed/anunciated.
> >> > 2. When freq is queried it displys/anunciates 5600
> >> >
> >> > I have not tried to tx to confirm DDS freq but believe it will probably be 3.560 kHz.
> >> >
> >> > I'm trawling through the code with WinDiff tring to divine the statements relating

to the band detection.
> >> >
> >> > Regards, dave VK2DDJ
> >> >
> >> > --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@> wrote:
> >> >>
> >> >> Okay,nothing too serious this time.
> >> >>
> >> >> 1. It is still possible to tune past the lower tuning limits and RIT limits, without warning.
> >> >>
> >> >> I thought I fixed this, but turns out I only reduced the chance of it happening by 50%. If there is an odd mumber in the 100 Hz digit when fast tune mode starts, the lower limit won't get detected. Therefore, if your operating near the band edge, check the freq before transmitting or use single step tuning.
> >> >>
> >> >> 2. 80M band isn't detected. This is only an issue for a few and thier getting new chips.
> >> >>
> >> >> 3. If the rig is in Straight key mode and you do a setup save, it will remain in SK mode forever. Well, not quite forever, as you can clear it if you want. That is done by powering the rig up with the MENU button held closed. That will clear the options flags and the start up freq registers. Then do another set up save. Calibration data is not affected.
> >> >>
> >> >> I was going to change that so the SK flag is always cleared on power up or before a setup save, but decided some might want to leave it that way, so it is now a feature.
> >> >>
> >> >> For those who can re-flash thier processor, the latest source code is in the MTR/IAR folder.
> >> >>
> >> >> Man, this better be the end of this!
> >> >>
> >> >> 72, Steve KD1JV
> >> >>
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> >> > Yahoo! Groups Links
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9268. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 04:16:47 UTC
From: jgaffke
Topic: 9175 Message: 9268

--- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
> Appeared to all work...Debug window came up
> and log said download complete.

Not good enough. You get a "download complete" message
even if Launchpad is not connected through the USB port,
if you have IAR in simulator mode.
Verify that Program/Options/Debugger is set to
"FET Debugger" and not "Simulator".
Maybe someday I'll find time to read the IAR docs,
but for now this seems like pretty stupid behavior.
Jerry KE7ER

9269. MTR User Prefs bug

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 11:08:14 UTC
From: wrmoore47
Topic: 9269 Message: 9269

Maybe this has been reported before, but I believe the settings for User Preferences are reversed.

- Morse on/off is Tune Down
- Save current state is Tune Up

The manual, p. 21, has these reversed.

73,
Randy, KS4L

9270. WTB: ATS-3B or ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 13:12:23 UTC
From: nz8j
Topic: 9270 Message: 9270

I am looking for one of the AT Sprint Series QRP trail radios. It must be fully functional.
I am mainly looking for the ATS-3B or ATS-4B but may consider other models.
If you have one for sale please send as much information about it as you can ,like mods, etc. Pictures would be great.
I can pay by immediate paypal or US postal money order if necessary.
Thanks
Tim
Nz8J

9271. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 13:58:35 UTC
From: Bob Confrey
Topic: 9175 Message: 9271

Good info....I'll check that before I try Dave's latest code at lunch time here.....TNX!...Bob....EDJ...

On Thu, May 24, 2012 at 12:16 AM, jgaffke <jgaffke@...> wrote:
> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
>> Appeared to all work...Debug window came up
>> and log said download complete.
>
> Not good enough. You get a "download complete" message
> even if Launchpad is not connected through the USB port,
> if you have IAR in simulator mode.
> Verify that Program/Options/Debugger is set to
> "FET Debugger" and not "Simulator".
> Maybe someday I'll find time to read the IAR docs,
> but for now this seems like pretty stupid behavior.
> Jerry KE7ER
>
>
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> Yahoo! Groups Links
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9272. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 17:32:16 UTC
From: Bob Confrey
Topic: 9175 Message: 9272

Ok, it appears that I've been successful in getting Dave's latest code into my MTR. After several attempts that did not appear successful, I finally used Dave's project files (which set the Debugger to FET per Jerry's advice) it did work. After pulling the MTR off the Launchpad and powering up, I was able to get both 40 and 80M band change with the switches.
I'll try this on an antenna tonight and see if it really receives.....Thanks for all the help guys.

BTW Dave, did you change any of the tuning rate values? You mentioned that it appears Steve dropped the rate from 200 to 100. I was happy with 200 since I move to slow parts of the band....While I'm at it maybe I want to reset my default start freq to my favorite areas? That should not be too hard?.....I'll get back with results of my tonight tests.....Bob....EDJ....

On Thu, May 24, 2012 at 9:58 AM, Bob Confrey <bobc784@gmail.com> wrote:
> Good info....I'll check that before I try Dave's latest code at lunch
> time here.....TNX!...Bob....EDJ...
>
> On Thu, May 24, 2012 at 12:16 AM, jgaffke <jgaffke@...> wrote:
>> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
>>> Appeared to all work...Debug window came up
>>> and log said download complete.
>>
>> Not good enough. You get a "download complete" message
>> even if Launchpad is not connected through the USB port,
>> if you have IAR in simulator mode.
>> Verify that Program/Options/Debugger is set to
>> "FET Debugger" and not "Simulator".
>> Maybe someday I'll find time to read the IAR docs,
>> but for now this seems like pretty stupid behavior.
>> Jerry KE7ER
>>
>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
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>>

9273. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 20:09:50 UTC
From: jgaffke
Topic: 9175 Message: 9273

--- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@...> wrote:
>After several attempts that did not appear successful,
>I finally used Dave's project files (which set the
>Debugger to FET per Jerry's advice) it did work.

Bob,
Glad you got it to work.

This IAR Simulator Mode thing is sneakier than you might
think. I can download Steve's files fresh, sic IAR on
them, and have it start out in Simulator Mode.
I'll be going into Project/Options/Debugger to make sure
it's in FET Mode every time I mess with it.

Jerry KE7ER

9274. MTR #57 on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 20:46:30 UTC
From: philip_graitcer
Topic: 9274 Message: 9274

Completed #57 this afternoon and it fired up with no problems. Haven't been able to do the calibrations except by ear, but made my first QSO - K0LWV in MO, about 800 miles. He was 579, I received a 559. My antenna is a non resonant 80m horizontal loop.

I am using a 9V smoke detector battery that registers about 8.0 volts right now.

I'm only able to get 1.0 watts our on 20 or 40. Should I be concerned?

Thanks for the great build experience! Now for the hard part, putting it in an enclosure. Considering packaging it along with Stu's SOTA EFHW tuner.

Phil, W3HZZ

9275. Re: [AT_Sprint] MTR #57 on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 20:48:54 UTC
From: Randy Moore
Topic: 9274 Message: 9275

Good deal, Phil! Let us know how you mount it with the EFHW tuner. I'm interested in doing the same thing.

73,
Randy, KS4L

On Thu, May 24, 2012 at 3:46 PM, philip_graitcer <pgraitc@...> wrote:

> **
>
>
> Completed #57 this afternoon and it fired up with no problems. Haven't
> been able to do the calibrations except by ear, but made my first QSO -
> K0LWV in MO, about 800 miles. He was 579, I received a 559. My antenna is a
> non resonant 80m horizontal loop.
>
> I am using a 9V smoke detector battery that registers about 8.0 volts
> right now.
>
> I'm only able to get 1.0 watts our on 20 or 40. Should I be concerned?
>
> Thanks for the great build experience! Now for the hard part, putting it
> in an enclosure. Considering packaging it along with Stu's SOTA EFHW tuner.
>
> Phil, W3HZZ
>

9276. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 23:02:44 UTC
From: David
Topic: 9175 Message: 9276

That's good news Bob!

I didn't change the tuning rates so let me know if you want them put back to the old rate. I'm not sure if the rate change was part of the band-edge fix or an unrelated change. You can set intial freqs with the preferences option but it should not be any problem to set them in the code for you, although I would probably email you direct with that change as it could lead to config management problems if I post it in the files section.

All the best, Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@...> wrote:
>
> Ok, it appears that I've been successful in getting Dave's latest code
> into my MTR. After several attempts that did not appear successful, I
> finally used Dave's project files (which set the Debugger to FET per
> Jerry's advice) it did work. After pulling the MTR off the Launchpad
> and powering up, I was able to get both 40 and 80M band change with
> the switches.
> I'll try this on an antenna tonight and see if it really
> receives.....Thanks for all the help guys.
>
> BTW Dave, did you change any of the tuning rate values? You
> mentioned that it appears Steve dropped the rate from 200 to 100. I
> was happy with 200 since I move to slow parts of the
> band....While I'm at it maybe I want to reset my default start freq to
> my favorite areas? That should not be too hard?.....I'll get back
> with results of my tonight tests.....Bob....EDJ....
>
>
> On Thu, May 24, 2012 at 9:58 AM, Bob Confrey <bobc784@...> wrote:
> > Good info....I'll check that before I try Dave's latest code at lunch
> > time here.....TNX!...Bob....EDJ...
> >
> > On Thu, May 24, 2012 at 12:16 AM, jgaffke <jgaffke@...> wrote:
> >> --- In AT_Sprint@...m, Bob Confrey <bobc784@> wrote:
> >>> Appeared to all work...Debug window came up
> >>> and log said download complete.
> >>
> >> Not good enough. You get a "download complete" message
> >> even if Launchpad is not connected through the USB port,
> >> if you have IAR in simulator mode.
> >> Verify that Program/Options/Debugger is set to
> >> "FET Debugger" and not "Simulator".
> >> Maybe someday I'll find time to read the IAR docs,
> >> but for now this seems like pretty stupid behavior.
> >> Jerry KE7ER

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> >> ------------------------------------
> >>
> >> Yahoo! Groups Links
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9277. Re: [AT_Sprint] MTR #57 on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 23:30:23 UTC
From: Milton A Riutort
Topic: 9274 Message: 9277

Very good job..! The power is a little low, but I am sure that using a new battery may help you getting a better power output. If not, you always can adjust the finals PA toroid wire wounds to find the sweet point. The manual also mention something about this.

73 de Milton
NP4KT

On May 24, 2012, at 4:48 PM, Randy Moore <wrmoore47@...> wrote:

> Good deal, Phil! Let us know how you mount it with the EFHW tuner. I'm interested in doing the same thing.
>
> 73,
> Randy, KS4L
>
>
> On Thu, May 24, 2012 at 3:46 PM, philip_graitcer <pgraitc@...> wrote:
>
> Completed #57 this afternoon and it fired up with no problems. Haven't been able to do the calibrations except by ear, but made my first QSO - K0LWV in MO, about 800 miles. He was 579, I received a 559. My antenna is a non resonant 80m horizontal loop.
>
> I am using a 9V smoke detector battery that registers about 8.0 volts right now.
>
> I'm only able to get 1.0 watts our on 20 or 40. Should I be concerned?
>
> Thanks for the great build experience! Now for the hard part, putting it in an enclosure. Considering packaging it along with Stu's SOTA EFHW tuner.
>
> Phil, W3HZZ
>
>

9278. Flashing The MTR With Launchpad (For Dummies)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-24 23:51:06 UTC
From: Jonathan Haynes
Topic: 9278 Message: 9278

I've noticed various of us adding crucial steps and clarifications to the procedure outlined in the PDF. If possible, could these steps be neatly integrated into the following and reposted? (Use cut/paste to keep it organized.) I plan on flashing mine, but think we would all benefit from having more explicit and correct instructions available.
Jonathan KC7FYS

-EDIT PLEASE-
Using The TI Launchpad To Flash The MTR Processor:
Launch Pad Connections:

1. Remove the two jumpers connecting TEST and RESET pins on header pins between EMULATION and MSP-EXPANSION sides of the LaunchPad.

2.Make up some jumpers with about 6" lead length. You could tack solder wires to the shorting bar in the shorting plugs, be careful not to melt the plastic housing too much! You could also leave the jumpers in place and connect your cables to the expansion pads on the edge of the board.

3.The MTR board side will have the wires in Ground/Rest/Test order. These wires could be soldered directly to some SIP pins.

4.Plug the cable into the three holes directly above the 7 seg display and to the left of the crystal.

5.Remember, the sequence is ground, rest, test on the MTR board.

6.Before connecting the Launchpad and MTR board together, you should power each up separately.

Connect the Launchpad to the PC via the USB cable, then power up the MTR board, then connect them together.

Down load IAR workbench version 5.4 from http://www.ti.com/launchpadwiki
Install the software to your PC. Create a folder somewhere (My Documents is always a good place) and move the files MTR.eww and MTR_2.S42 into that folder. Start the IAR workbench IDE from your programs list.

File > OPEN > Projects
Click on "Projects"

Navigate to the folder you put the MTR files into. The MTR file should be highlighted and click the "OPEN" button.

The project will open and the screen will now look like the below.
If you have not done so yet, connect the Launchpad and MTR board together with the cable.

Hover the mouse over the icon with the green flag, second icon to the left on the tool bar. Download and Debug. Click the icon and downloading will begin. A few message windows will

open as it programs. It will take a few seconds before something happens in the "EMULATOR" window. Once the firmware is down loaded, the screen with change to the debug screen shown on the second screen shot below.
Since we're all done, click on the red X to stop the debugging and go back to the editor.

If you don't exit the debugger before removing power or the cable to the MTR, you will get error messages. No big deal, but should you want to down load again, the Launchpad probably froze up and you'll have to reset it by unplugging the USB cable an plugging it back in again.
That's all there is to it!

9279. MTR #001

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 01:18:46 UTC
From: wa2ohf
Topic: 9279 Message: 9279

I finished mounting my MTR in an Altoids tin Tuned it into my
Windom and worked K7M then called G3ROO and he answered 559
we chatted for about 10 minutes until he signed. this was 4311 miles
AMAZING.
Arthur NS7E in New Prague MN.

9280. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 02:21:39 UTC
From: David
Topic: 9175 Message: 9280

Found onther one...while looking into Bob's request to change the default startup frequencies I found the 30m upper limit was set to 10.250MHz, I guessing it should be 10.125MHz. Out of interest the current values are: (band)-(default)-(lower limit)-(upper limit)
20m - 14.060 - 14.000 - 14.150
30m - 10.118 - 10.100 - 10.250 (ie the bug)
40m - 7.030 - 7.000 - 7.150 (was 7.100 in previous version)
80m - 3.560 - 3.500 - 3.700

Regards, dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, "David" <djblunn@...> wrote:
>
> That's good news Bob!
>
> I didn't change the tuning rates so let me know if you want them put back to the old rate. I'm not sure if the rate change was part of the band-edge fix or an unrelated change. You can set intial freqs with the preferences option but it should not be any problem to set them in the code for you, although I would probably email you direct with that change as it could lead to config management problems if I post it in the files section.
>
> All the best, Dave VK2DDJ
>
> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
> >
> > Ok, it appears that I've been successful in getting Dave's latest code
> > into my MTR. After several attempts that did not appear successful, I
> > finally used Dave's project files (which set the Debugger to FET per
> > Jerry's advice) it did work. After pulling the MTR off the Launchpad
> > and powering up, I was able to get both 40 and 80M band change with
> > the switches.
> > I'll try this on an antenna tonight and see if it really
> > receives.....Thanks for all the help guys.
> >
> > BTW Dave, did you change any of the tuning rate values? You
> > mentioned that it appears Steve dropped the rate from 200 to 100. I
> > was happy with 200 since I move to slow parts of the
> > band....While I'm at it maybe I want to reset my default start freq to
> > my favorite areas? That should not be too hard?.....I'll get back
> > with results of my tonight tests.....Bob....EDJ....
> >
> >
> > On Thu, May 24, 2012 at 9:58 AM, Bob Confrey <bobc784@> wrote:
> > > Good info....I'll check that before I try Dave's latest code at lunch
> > > time here.....TNX!...Bob....EDJ...

```
> > >
> > > On Thu, May 24, 2012 at 12:16 AM, jgaffke <jgaffke@> wrote:
> > >> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
> > >>> Appeared to all work...Debug window came up
> > >>> and log said download complete.
> > >>
> > >> Not good enough.  You get a "download complete" message
> > >> even if Launchpad is not connected through the USB port,
> > >> if you have IAR in simulator mode.
> > >> Verify that  Program/Options/Debugger is set to
> > >> "FET Debugger" and not "Simulator".
> > >> Maybe someday I'll find time to read the IAR docs,
> > >> but for now this seems like pretty stupid behavior.
> > >> Jerry  KE7ER
> > >>
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> > >>
> > >> Yahoo! Groups Links
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9281. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 07:05:43 UTC
From: Colin Tuckley
Topic: 9175 Message: 9281

Quoting David <djblunn@...>:

> Found onther one...while looking into Bob's request to change the
> default startup frequencies I found the 30m upper limit was set to
> 10.250MHz, I guessing it should be 10.125MHz.

The UK has 10.100 to 10.150, other countries might have up to 10.250
so it might not be a bug.

Colin G8TMV

9282. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 09:12:57 UTC
From: David
Topic: 9175 Message: 9282

Hi Colin, here in Australia and in the US it is also 10.1 to 10.15 so I'm pretty sure it is an error. Anyway I have updated the zip file containing the source code and project files that I put in the files->MTR section.
Regards, Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, Colin Tuckley <colin@...> wrote:
>
> Quoting David <djblunn@...>:
>
> > Found onther one...while looking into Bob's request to change the
> > default startup frequencies I found the 30m upper limit was set to
> > 10.250MHz, I guessing it should be 10.125MHz.
>
>
> The UK has 10.100 to 10.150, other countries might have up to 10.250
> so it might not be a bug.
>
> Colin G8TMV
>

9283. MRT Parts Help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 05:15:36 UTC
From: jhg40earthlinknet
Topic: 9283 Message: 9283

Well, so far I manged to launch into orbit one reistor and one capacitor. Both took off while trying to remove them from the packaging.

Can someone tell me what size and wattage these things are so I can order the replacements. I don't know if the specifics matter but it was a 271 (270 ohm) reisistor and a 100pf cap (with the violet marking).

I've looked through the manual and through the messages here (and there are a lot of them) but have not seen anything helpful yet.

Thanks,
John
WB6HVH

9284. MTR bugs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 13:39:53 UTC
From: WA0ITP
Topic: 9284 Message: 9284

This thread has me wondering if I should delay building to see if
there is a final version that Steve, or someone, may wish to flash for
the group. Is it worth the wait?

I love this radio stuff !
72, 73 Terry, WA?ITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

9285. [AT_Sprint] MTR bugs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 13:50:28 UTC
From: Johnny Matlock
Topic: 9284 Message: 9285

My thoughts exactly?
Either that or buy a launch pad for the chip?
Tnx
Johnny AC0BQ

9286. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 13:54:41 UTC
From: Bob Confrey
Topic: 9175 Message: 9286

Dave,
I did give the MTR a listen last night and tune up. It switches
bands nicely now, thanks! However, I'm not pleased with the 80M
performance. Normally I can peak the input caps
on band noise. No so on the MTR (on 80M, 40M is ok). I will go
back and double check the input components. Because of how I had to
move things around for 80M, it is possible I got a wrong value in the
front end. I'm also going to compare the values for 80M from the
ATS-4B to the MTR....I'd think they'd be the same. My 4B works pretty
well on 80 but the MTR seems pretty deaf. I tried a sig gen on 80 for
tune up since I could not hear any signals and the peaking on the
front end caps was weak and broad. Not like 40M.

I did not realize you could set start freq in the preferences....Need
to read the manual...thanks! If thats the case I can just change
that, no need to spin the code for me.....
I'll let you know what else I find.....TNX!...Bob....EDJ....

On Thu, May 24, 2012 at 7:02 PM, David <djblunn@...> wrote:
> That's good news Bob!
>
> I didn't change the tuning rates so let me know if you want them put back to the old
rate. I'm not sure if the rate change was part of the band-edge fix or an unrelated change.
You can set intial freqs with the preferences option but it should not be any problem to
set them in the code for you, although I would probably email you direct with that change
as it could lead to config management problems if I post it in the files section.
>
> All the best, Dave VK2DDJ
>
> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@...> wrote:
>>
>> Ok, it appears that I've been successful in getting Dave's latest code
>> into my MTR. After several attempts that did not appear successful, I
>> finally used Dave's project files (which set the Debugger to FET per
>> Jerry's advice) it did work. After pulling the MTR off the Launchpad
>> and powering up, I was able to get both 40 and 80M band change with
>> the switches.
>> I'll try this on an antenna tonight and see if it really
>> receives.....Thanks for all the help guys.
>>
>> BTW Dave, did you change any of the tuning rate values? You
>> mentioned that it appears Steve dropped the rate from 200 to 100. I
>> was happy with 200 since I move to slow parts of the
>> band....While I'm at it maybe I want to reset my default start freq to
>> my favorite areas? That should not be too hard?.....I'll get back

>> with results of my tonight tests.....Bob....EDJ....
>>
>>
>> On Thu, May 24, 2012 at 9:58 AM, Bob Confrey <bobc784@...> wrote:
>> > Good info....I'll check that before I try Dave's latest code at lunch
>> > time here.....TNX!...Bob....EDJ...
>> >
>> > On Thu, May 24, 2012 at 12:16 AM, jgaffke <jgaffke@...> wrote:
>> >> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
>> >>> Appeared to all work...Debug window came up
>> >>> and log said download complete.
>> >>
>> >> Not good enough. You get a "download complete" message
>> >> even if Launchpad is not connected through the USB port,
>> >> if you have IAR in simulator mode.
>> >> Verify that Program/Options/Debugger is set to
>> >> "FET Debugger" and not "Simulator".
>> >> Maybe someday I'll find time to read the IAR docs,
>> >> but for now this seems like pretty stupid behavior.
>> >> Jerry KE7ER
>> >>
>> >>
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>> >> ------------------------------------
>> >>
>> >> Yahoo! Groups Links
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> Yahoo! Groups Links
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9287. Re: [AT_Sprint] MTR bugs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 14:04:41 UTC
From: Jonathan
Topic: 9284 Message: 9287

The more of us who have the 4$ launchpad and can program, the better. The instructions will get refined that way. Also, having a programmable device with various firmware versions (as the ATS3B does also) you'd want to be able to apply tweaks at will.
Take the plunge and get the launchpad.
KC7FYS Jonathan

9288. Re: [AT_Sprint] MTR bugs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 14:11:17 UTC
From: Paul Mateer
Topic: 9284 Message: 9288

FYI:
http://processors.wiki.ti.com/index.php/MSP430_LaunchPad_%28MSP-EXP430G2%29

On Fri, May 25, 2012 at 9:04 AM, Jonathan <kc7fys@...> wrote:

> **
>
>
> The more of us who have the 4$ launchpad and can program, the better. The
> instructions will get refined that way. Also, having a programmable device
> with various firmware versions (as the ATS3B does also) you'd want to be
> able to apply tweaks at will.
> Take the plunge and get the launchpad.
> KC7FYS Jonathan
>
>
>

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

9289. Re: [AT_Sprint] MTR bugs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 15:48:00 UTC
From: Andrew Cross
Topic: 9284 Message: 9289

I have ordered a Launchpad but have no experience with one though. I originally asked for a new chip and Steve kindly posted me one via airmail, but as that was four weeks ago and it hasn't arrived, I must presume that the French postal system has had its way with the small envelope?? So, it seems that I will have to 'brave it' and have a go at reflashing the original one which I kept just in case this happened (French postal service from my experience is a little iffy at times and I didn't want to risk not having a chip at all with Steve's short time frames), and so I have begun building with the original chip.

I've read the document Steve posted that gives instructions and just waiting now whilst finishing the build to gain enough info from this knowledgeable group on exactly how to do it especially taking the revisions being mentioned on this thread into consideration. To this end, I particularly liked Jonathan's idea of a single list of instructions for 'this dummie' at least, so I can proceed when I get the build completed. I'll continue to follow this thread for such guidance. I'm optimistic that I'll manage and although never intended to reflash anything, am now quite keen on the challenge - probably famous last words!

Thanks to all who contribute here, it is very useful.

Andrew
F/M0ONZ

PS. Also a quick hello to you chaps in G-land - great jobs on your respective builds - hopefully we can MTR to MTR on 40m when I'm done.

>_____
> From: Jonathan <kc7fys@...>
>To: "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
>Sent: Friday, 25 May 2012, 16:04
>Subject: Re: [AT_Sprint] MTR bugs
>
>
>
>The more of us who have the 4$ launchpad and can program, the better. The instructions will get refined that way. Also, having a programmable device with various firmware versions (as the ATS3B does also) you'd want to be able to apply tweaks at will.
>Take the plunge and get the launchpad.
>KC7FYS Jonathan
>
>
>
>

9290. MT not dits nor dahs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 16:05:27 UTC
From: ohwenzelph
Topic: 9290 Message: 9290

So i finished stuffing my MT board and boiled it in alcohol to get the flux off, felt pen colorong came off too, and it powers up and says 4 in code and flashes a 4 onthe led, but i get no dit or dahs.

any suggestions?

tnx

jerry aa1of

9291. RE: [AT_Sprint] MT not dits nor dahs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 16:30:38 UTC
From: Dale Putnam
Topic: 9290 Message: 9291

Visually inspect the board, very very carefully, odds are there is a solder joint not right. Likely a ground around the paddle jack or the ic.Good luck.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: ohwenzelph@...
Date: Fri, 25 May 2012 16:05:27 +0000
Subject: [AT_Sprint] MT not dits nor dahs

So i finished stuffing my MT board and boiled it in alcohol to get the flux off, felt pen colorong came off too, and it powers up and says 4 in code and flashes a 4 onthe led, but i get no dit or dahs.

any suggestions?

tnx

jerry aa1of

9292. Re: [AT_Sprint] MTR bugs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 17:09:55 UTC
From: Bob Confrey
Topic: 9284 Message: 9292

Reflashing isn't that bad....but it helps to have a group like this to fall back on. I've had a little experience with compilers and still had to keep plugging away to get this one to work.
List suggestions helped. Using someone else's project file was what finally worked. Prior to that I was in the ditch trying things I "thought" were correct!.....We're here to help!....Bob...EDJ....

On Fri, May 25, 2012 at 11:48 AM, Andrew Cross <andrewcross_za@...>wrote:

>
>
> I have ordered a Launchpad but have no experience with one though. I
> originally asked for a new chip and Steve kindly posted me one via airmail,
> but as that was four weeks ago and it hasn't arrived, I must presume that
> the French postal system has had its way with the small envelope?? So, it
> seems that I will have to 'brave it' and have a go at reflashing the
> original one which I kept just in case this happened (French postal service
> from my experience is a little iffy at times and I didn't want to risk not
> having a chip at all with Steve's short time frames), and so I have begun
> building with the original chip.
>
> I've read the document Steve posted that gives instructions and just
> waiting now whilst finishing the build to gain enough info from this
> knowledgeable group on exactly how to do it especially taking the revisions
> being mentioned on this thread into consideration. To this end, I
> particularly liked Jonathan's idea of a single list of instructions for
> 'this dummie' at least, so I can proceed when I get the build completed.
> I'll continue to follow this thread for such guidance. I'm optimistic that
> I'll manage and although never intended to reflash anything, am now quite
> keen on the challenge - probably famous last words!
>
> Thanks to all who contribute here, it is very useful.
>
> Andrew
> F/M0ONZ
>
> PS. Also a quick hello to you chaps in G-land - great jobs on your
> respective builds - hopefully we can MTR to MTR on 40m when I'm done.
>
> ----------
> *From:* Jonathan <kc7fys@...>
> *To:* "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
> *Sent:* Friday, 25 May 2012, 16:04
> *Subject:* Re: [AT_Sprint] MTR bugs
>

>
> The more of us who have the 4$ launchpad and can program, the better. The
> instructions will get refined that way. Also, having a programmable device
> with various firmware versions (as the ATS3B does also) you'd want to be
> able to apply tweaks at will.
> Take the plunge and get the launchpad.
> KC7FYS Jonathan
>
>
>
>
>
>

9293. Re: [AT_Sprint] MRT Parts Help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 18:01:00 UTC
From: Bob Confrey
Topic: 9283 Message: 9293

John,
I think the SMT R's and C's are 0805 size. I've used 0603 parts
to replace a few I messed up. They are a little smaller but fit the
footprint. I have lots of 0603 parts here at work. Not sure we use
any 0805's.....I can send you a few 0603's if you'd like.....just give
me your USPS info.....Bob....WA1EDJ.....Monroe, Ga.

On Fri, May 25, 2012 at 1:15 AM, jhg40earthlinknet
<jgoodsell@...> wrote:
> Well, so far I manged to launch into orbit one reistor and one capacitor. Both took off while trying to remove them from the packaging.
>
> Can someone tell me what size and wattage these things are so I can order the replacements. I don't know if the specifics matter but it was a 271 (270 ohm) reisistor and a 100pf cap (with the violet marking).
>
> I've looked through the manual and through the messages here (and there are a lot of them) but have not seen anything helpful yet.
>
> Thanks,
> John
> WB6HVH
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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9294. Re: Flashing The MTR With Launchpad (For Dummies)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 19:18:44 UTC
From: jgaffke
Topic: 9278 Message: 9294

Here's my shot at rewriting the tutorial.
There's probably still bugs in this procedure, I'll try to test it
completely from scratch someday when I have access to everything again.
(I'm currently out in the boonie bushes.)
We need to specify how to obtain 3 appropriate header pins (use wire?).
I'm recommending we remove the MSP430 from the Launchpad, though an
alternative is to plug the RST and TST jumpers into the one pin nearest
the USB connector on the Launchpad rather than plug the jumper into both pins.
We need to finalize all those band edge issues and band select A2D values,
but that's just a matter of substituting a new MTR_2.s43 file.
I'm not sure that we can skip downloading Steve's settings subdirectory,
but that apparently worked for David Blunn so I'm following his lead.
Would be nice to package Steve's files into an executable zip archive,
avoids downloading lots of individual files as I do here,
and avoids installing the unzip tool which David's archive requires.
David's archive was built with a newer version of IAR than my April copy,
so I'd have to download the newest IAR to use his archive.
Not clear to me that we need to connect the boards after powering up,
if you do this I suggest you connecto ground first.
Some computers may refuse to talk to Launchpad over the USB port for
various reasons. You might try switching to a different USB port.
You might try leaving the straps as they originally were on the Launchpad
and talk to the MSP430 in the Launchpad socket to debug things
this far without having to worry about wiring up the MTR. We apparently
need to write a procedure to do this, as TI in their wisdom has not made
it an easy thing to do.

This is not as easy as you might think it should be, but easy enough.

##############
Using The TI Launchpad To Flash The MTR Processor:
Launch Pad Connections:

1. Downloaded the 134 MB "code size limited" IAR software from
http://processors.wiki.ti.com/index.php/IAR_Embedded_Workbench_for_TI_MSP430
This will only work on a Microsoft Windows computer with an operating system
from the last 10 years or so.

2. Copy the following from MTR/IAR in the group files section
to some new directory on your computer:
MTR.dep MTR.ewp MTR.eww MTR_2.s43
You can ignore the Steve's "settings" directory.
The file MTR_2.s43 will be changing as we come to a consensus on band edge
fixes and such, but Steve's file that's there now has the critical fix to
avoid transmitting monitor information.

3. Remove the socketed MSP430 from the Launchpad board so there is
only one MSP430 in the system. Launchpad can only be connected
to one MSP430 at a time.

4. Remover the black jumpers from the TEST, RST and RXD pin pairs
found on the Launchpad. Solder one end of three pieces of 6" 24 guage
insulated stranded wire (or whatever you have on hand) to the shorting
bars across each of those jumpers, you may want to cut away a bit of
black plastic first.

5. Solder the other end of those wires to a single wide strip of three
header pins of the same type soldered to the Launchpad for those jumpers
(or perhaps use pieces of ??? guage solid copper wire for pins, should fit
firmly into the holes on the MTR).

6. Plug the 3 header pins into the three holes on the MTR above the
seven segment display.

7. Power up both boards by plugging a battery into the MTR and running a
USB cable from a computer with IAR installed to the Launchpad.
This USB cable is included with the Launchpad. (Not clear to me
we need to do this before step 8, seems slightly more dangerous.)

8. Find the wire connected to the pin furthest from the cylindrical crystal
near the 7 segment display (if you look closely, you can see the pad is
connected to the ground plane of the MTR), and connect the jumper soldered
to the other end of that wire to two of the pins labeled "GND" in a corner
of the Launchpad. Then connect the jumper from the middle pin to the two
pins labeled "RST" on the Launchpad. Connect the jumper from the final pin
to the two pins labeled "TST" on the Launchpad.

9. Start up IAR Workbench on your computer.
Click through the menus for File/Open/Workspace, then navigate to the
folder where you installed the MTR files in step 2 and select the "MTR" file
with the mouse and then click "Open".

10. In IAR, click through the menus for Project/Rebuild_All, you should
see a message at the bottom stating 0 Errors and 0 Warnings when it's done.

11. In IAR, click through the menus for Project/Options, then select "Debugger"
from the menu on the left side of the screen. In the box to the right labeled
"Driver", it may say "Simulator", click the down arrow and select "FET Debugger"

12. In IAR, click through the menus for Project/Download_and_Debug.
If this eventually reports "Download Complete", then congratulations,
you have successfully programmed flash on your MTR!
Note that you will get a bogus "Download Complete" message if you do not
have the "FET Debugger" selected as spelled out in the previous step. (Gah!)

--- In AT_Sprint@yahoogroups.com, "Jonathan Haynes" <kc7fys@...> wrote:
> -EDIT PLEASE-
> .....

9295. Re: MT not dits nor dahs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 20:04:22 UTC
From: ohwenzelph
Topic: 9290 Message: 9295

Hi Dale,
thanks for the suggestions.its hard to be really sure with those little tiny pins on two of the ic's(cpu and digital synthesis). not as simple as a poor ground on a jack, as i recall if i ground one line(forget which one) then pretty much nothing happens but if i ground the other it makes a noise and then resends the 4. so its not only not doing what its spozed to, its also doin something it shouldn't. i have looked at it really close, and sometinmes a bad connection can be deceivingly sublte so i may rewarm things and see if that helps, but i am wondering if maybe the cpu code got corrupted or the chip partially zapped.

jerry aa1of

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Visually inspect the board, very very carefully, odds are there is a solder joint not right. Likely a ground around the paddle jack or the ic.Good luck.
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com

9296. Re: Flashing The MTR With Launchpad (For Dummies)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 20:56:51 UTC
From: jgaffke
Topic: 9278 Message: 9296

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> Here's my shot at rewriting the tutorial.
>
> We need to specify how to obtain 3 appropriate header pins
> (use wire?).

First place to look is on an old board from a dead desktop computer, these pins are fairly common. Easy to remove if you take them one by one, and pull them with a needle nose pliers. Some may be difficult to get, if they are attached to an internal power or ground plane which would suck away the heat.

Another good source would be those four "LED" pins on the Launchpad, pull them out and solder in short wires to replace the jumpers.

If whatever you use is a bit loose in the three holes of the MTR, press them to one side so they make good contact.

> connect the jumper soldered to the other end of that wire to
> two of the pins labeled "GND" in a corner of the Launchpad.

Be sure to connect to the two pins labeled "GND", and not include the third adjacent pin labeled "VCC" in the corner of the board.

Jerry, KE7ER

9297. Re: Flashing The MTR With Launchpad (For Dummies)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 21:12:24 UTC
From: Jonathan
Topic: 9278 Message: 9297

I don't know what these:
http://www.flickr.com/photos/jonathancharles/2897298586/
...pin sockets are called, but I picked up several strips of them at a shop in Akihabara years ago. They make great sockets for connections in the ATS rigs that you'd end up soldering and desoldering. They could easily be salvaged from PC carcasses, perhaps.
Jonathan KC7FYS

9298. Re: MTR #57 on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 21:31:44 UTC
From: PHILIP GRAITCER
Topic: 9274 Message: 9298

With 12 volt LiPo better I'm getting a little more than 4 watts on both 40 and 20. . Guess that's good enough.

Phil W3HZZ

Sent from my iPhone

9299. Re: Flashing The MTR With Launchpad (For Dummies)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 21:41:01 UTC
From: n1rx
Topic: 9278 Message: 9299

Jonathan,
They are called SIP (single inline pin) sockets. Those are the nice machined-pin ones, and good quality. For the programming port on the ATS series of rigs, there is no need to install one of these. I have found (like Steve) that simply placing the pins from the end of the programming cable into the thru-holes on the PC board, and applying some light side pressure by hand provides a very reliable programming connection.
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, Jonathan <kc7fys@...> wrote:
>
> I don't know what these:
> http://www.flickr.com/photos/jonathancharles/2897298586/
> ...pin sockets are called, but I picked up several strips of them at a shop in Akihabara years ago. They make great sockets for connections in the ATS rigs that you'd end up soldering and desoldering. They could easily be salvaged from PC carcasses, perhaps.
> Jonathan KC7FYS
>

9300. MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 22:44:48 UTC
From: Skyridr
Topic: 9300 Message: 9300

Problem- no annuciation when the rig is powered on, although 2 or 4 shows up in the display. Also, there is no annunciation in the phones when the rig is keyed, or when the various switches are pressed.

Situation- Signals are received fine, so the earphones and jack are OK. Voltages appear OK for the audio amps, mixer, U9, and U6. The voltage for the drain of the keying transistor rises when a string of dashes are sent. 9 Volts.

What am I missing? LO frequency and BFO adjustment? I don't have a scope.

Suggestions?

N7WM
Wendell in Montana

9301. webber dual bander

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 21:43:23 UTC
From: Arthur Ripple
Topic: 9301 Message: 9301
Attachments: 1 described; binary payloads are missing from this source WARC

Anyone interested in this rig its setup for 80 and 15 works great
I have a quite a few and do not have time to play with them all.
if the picture did not make it I can forward it to anyone interested
Arthur NS7E

9302. ats-3b1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-25 21:39:56 UTC
From: Arthur Ripple
Topic: 9302 Message: 9302

regarding the person on e-bay I sent him a message asking about his call
and it was his novise call expired menny years ago
Arthur NS7E

9303. Re: [AT_Sprint] ats-3b1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 00:05:37 UTC
From: Gil WA5YKK
Topic: 9302 Message: 9303

On 5/25/2012 4:39 PM, Arthur Ripple wrote:
> regarding the person on e-bay I sent him a message asking about his call
> and it was his novise call expired menny years ago
> Arthur NS7E
>
>
Arthur;

That makes a little sense, only real problem being that the "WD" part of the callsign makes my radar go up - unless the Fox Charlie Charlie dropped the "N" for Novice a long time ago, too. There are simply too many people who use and abuse the Internet and email with fraud in mind, thus I give eBay sellers a long whiff before committing for a sale. Got burned five times, took money out of my bank account that was intended for a ham radio project! Have talked to wannabe hams who sounded very convincing, then the rigs they used were old CB doorstops.

My 2 cent's worth, is all.

73's
Gil WA5YKK

9304. Re: MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 02:01:36 UTC
From: David
Topic: 9300 Message: 9304

Are you getting any sidetone at all? follow the audio path from the analogue switch back to the cpu and find out where it stops. Also check you have not turned annunciation off, I think powering up with the menu button pressed will reset defaults.
Regards, Dave

--- In AT_Sprint@yahoogroups.com, "Skyridr" <november7wm@...> wrote:
>
> Problem- no annuciation when the rig is powered on, although 2 or 4 shows up in the display. Also, there is no annunciation in the phones when the rig is keyed, or when the various switches are pressed.
>
> Situation- Signals are received fine, so the earphones and jack are OK. Voltages appear OK for the audio amps, mixer, U9, and U6. The voltage for the drain of the keying transistor rises when a string of dashes are sent. 9 Volts.
>
> What am I missing? LO frequency and BFO adjustment? I don't have a scope.
>
> Suggestions?
>
> N7WM
> Wendell in Montana
>

9305. RE: [AT_Sprint] MRT Parts Help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 00:46:56 UTC
From: John
Topic: 9283 Message: 9305

Bob,

Thank you so much for the information and the offer to supply the parts.
Dale Putnam has already placed some in the mail for me.

Thanks to you both!

John WB6HVH

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of Bob Confrey
Sent: Friday, May 25, 2012 11:01 AM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MRT Parts Help

John,
I think the SMT R's and C's are 0805 size. I've used 0603 parts
to replace a few I messed up. They are a little smaller but fit the
footprint. I have lots of 0603 parts here at work. Not sure we use
any 0805's.....I can send you a few 0603's if you'd like.....just give
me your USPS info.....Bob....WA1EDJ.....Monroe, Ga.

On Fri, May 25, 2012 at 1:15 AM, jhg40earthlinknet
<jgoodsell@... <mailto:jgoodsell%40comcast.net> > wrote:
> Well, so far I manged to launch into orbit one reistor and one capacitor.
Both took off while trying to remove them from the packaging.
>
> Can someone tell me what size and wattage these things are so I can order
the replacements. I don't know if the specifics matter but it was a 271 (270
ohm) reisistor and a 100pf cap (with the violet marking).
>
> I've looked through the manual and through the messages here (and there
are a lot of them) but have not seen anything helpful yet.
>
> Thanks,
> John
> WB6HVH
>
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> ------------------------------------
>
> Yahoo! Groups Links
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9306. RE: [AT_Sprint] Re: MT not dits nor dahs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 02:40:16 UTC
From: Dale Putnam
Topic: 9290 Message: 9306

Hi Jerry, I suppose that corrupted or zapped is possible. Although I've never had that happen.. have been convinced that was the case... right up until I found ... the worst was rosin UNDER the cpu. That didn't work well at all. The other time was a solder bridge that I found with high intensity light, and a lot of magnification. I'd hate to try to reprogram it when it may not be powering up right. Maybe rewarming will help. Good luck. Maybe something pops up ?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: ohwenzelph@...
Date: Fri, 25 May 2012 20:04:22 +0000
Subject: [AT_Sprint] Re: MT not dits nor dahs

Hi Dale,

thanks for the suggestions.its hard to be really sure with those little tiny pins on two of the ic's(cpu and digital synthesis). not as simple as a poor ground on a jack, as i recall if i ground one line(forget which one) then pretty much nothing happens but if i ground the other it makes a noise and then resends the 4. so its not only not doing what its spozed to, its also doin something it shouldn't. i have looked at it really close, and sometinmes a bad connection can be deceivingly sublte so i may rewarm things and see if that helps, but i am wondering if maybe the cpu code got corrupted or the chip partially zapped.

jerry aa1of

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

>

> Visually inspect the board, very very carefully, odds are there is a solder joint not right. Likely a ground around the paddle jack or the ic.Good luck.

>

> --... ...--

> Dale - WC7S in Wy

> To: AT_Sprint@yahoogroups.com

9307. Re: [AT_Sprint] Re: MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 02:46:16 UTC
From: wmorrill@montana.edu
Topic: 9300 Message: 9307

Dave- no sidetone at all. Have gone to Preferences, and used switches up as well as down, in case the sidetone was toggled off. Also, did a menue press before/during power on to reset everything.

Thanks for your suggestions, will see what I can find in the audio path. Have reheated some of the connections.

I sent the unit to Steven for reflashing, seems that I was gettng audio before that, but am not sure. Wonder is something happened during reflashing. I ordered a launch pad today, maybe I can figure out something with it.

Regards, Wendell

> Are you getting any sidetone at all? follow the audio path from the
> analogue switch back to the cpu and find out where it stops. Also check
> you have not turned annunciation off, I think powering up with the menu
> button pressed will reset defaults.
> Regards, Dave
>
> --- In AT_Sprint@yahoogroups.com, "Skyridr" <november7wm@...> wrote:
>>
>> Problem- no annuciation when the rig is powered on, although 2 or 4
>> shows up in the display. Also, there is no annunciation in the phones
>> when the rig is keyed, or when the various switches are pressed.
>>
>> Situation- Signals are received fine, so the earphones and jack are OK.
>> Voltages appear OK for the audio amps, mixer, U9, and U6. The voltage
>> for the drain of the keying transistor rises when a string of dashes are
>> sent. 9 Volts.
>>
>> What am I missing? LO frequency and BFO adjustment? I don't have a
>> scope.
>>
>> Suggestions?
>>
>> N7WM
>> Wendell in Montana
>>
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>

9308. Re: [AT_Sprint] ats-3b1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 02:52:48 UTC
From: Hank Greeb
Topic: 9302 Message: 9308

ebay reports 100% satisfied customers, so the guy must have something
going for him.

On 5/25/2012 8:05 PM, Gil WA5YKK wrote:
>
>
> On 5/25/2012 4:39 PM, Arthur Ripple wrote:
>> regarding the person on e-bay I sent him a message asking about his call
>> and it was his novise call expired menny years ago
>> Arthur NS7E
>>
> Arthur;
>
> That makes a little sense, only real problem being that the "WD" part
> of the callsign makes my radar go up - unless the Fox Charlie Charlie
> dropped the "N" for Novice a long time ago, too. There are simply too
> many people who use and abuse the Internet and email with fraud in
> mind, thus I give eBay sellers a long whiff before committing for a
> sale. Got burned five times, took money out of my bank account that
> was intended for a ham radio project! Have talked to wannabe hams who
> sounded very convincing, then the rigs they used were old CB doorstops.
>
> My 2 cent's worth, is all.
>
> 73's
> Gil WA5YKK
>
>
>

9309. RE: [AT_Sprint] MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 03:14:18 UTC
From: Dale Putnam
Topic: 9300 Message: 9309

How about a vom, on ac.. look for the sidetone as it goes into the audio amp... and trace it back?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: november7wm@...
Date: Fri, 25 May 2012 22:44:48 +0000
Subject: [AT_Sprint] MTR annunciation

Problem- no annuciation when the rig is powered on, although 2 or 4 shows up in the display. Also, there is no annunciation in the phones when the rig is keyed, or when the various switches are pressed.

Situation- Signals are received fine, so the earphones and jack are OK. Voltages appear OK for the audio amps, mixer, U9, and U6. The voltage for the drain of the keying transistor rises when a string of dashes are sent. 9 Volts.

What am I missing? LO frequency and BFO adjustment? I don't have a scope.

Suggestions?

N7WM

Wendell in Montana

9310. Re: MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 04:47:09 UTC
From: David
Topic: 9300 Message: 9310

Hi Wendell,
if you have receive audio and the muting works for the QSK (ie no massive thuds when in tx) then use a CRO or multimeter (on AC) to find where the audio from the side tone is getting to. When I built mine I had sidetone but no rx af. Turned out to be one of the legs on the analogue switch not quite soldered to the board, the multimeter probe caused it to make contact. So could be o/c or s/c connection, as they usually are, fried components are not as common.
Regards, Dave

--- In AT_Sprint@yahoogroups.com, wmorrill@... wrote:
>
> Dave- no sidetone at all. Have gone to Preferences, and used switches up
> as well as down, in case the sidetone was toggled off. Also, did a menue
> press before/during power on to reset everything.
>
> Thanks for your suggestions, will see what I can find in the audio path.
> Have reheated some of the connections.
>
> I sent the unit to Steven for reflashing, seems that I was gettng audio
> before that, but am not sure. Wonder is something happened during
> reflashing. I ordered a launch pad today, maybe I can figure out
> something with it.
>
> Regards, Wendell
>
>
> > Are you getting any sidetone at all? follow the audio path from the
> > analogue switch back to the cpu and find out where it stops. Also check
> > you have not turned annunciation off, I think powering up with the menu
> > button pressed will reset defaults.
> > Regards, Dave
> >
> > --- In AT_Sprint@yahoogroups.com, "Skyridr" <november7wm@> wrote:
> >>
> >> Problem- no annuciation when the rig is powered on, although 2 or 4
> >> shows up in the display. Also, there is no annunciation in the phones
> >> when the rig is keyed, or when the various switches are pressed.
> >>
> >> Situation- Signals are received fine, so the earphones and jack are OK.
> >> Voltages appear OK for the audio amps, mixer, U9, and U6. The voltage
> >> for the drain of the keying transistor rises when a string of dashes are
> >> sent. 9 Volts.
> >>
> >> What am I missing? LO frequency and BFO adjustment? I don't have a
> >> scope.

> >>
> >> Suggestions?
> >>
> >> N7WM
> >> Wendell in Montana
> >>
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> >
>

9311. Re: MT not dits nor dahs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 09:30:35 UTC
From: ohwenzelph
Topic: 9290 Message: 9311

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Hi Jerry, I suppose that corrupted or zapped is possible. Although I've never had that happen.. have been convinced that was the case...

Hi Dale,
with very close inspection the soldering looked good, tried to reflash it but kept being 'not recognized', had set it up for 40 and 20 and it would give a four but not a two. even though it looked good i slathered the fine pins with solder and then wicked the bridges figuring got nothing to lose, might as well try it, i would not have believed it, all is as it should be.... reflashed and installed L-14. really really hard to believe.
72/73 & tnx
jerry aa1of franconia nh

9312. Re: MTR bugs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 03:57:30 UTC
From: k1thp
Topic: 9284 Message: 9312

No, just build it. I have worked 6 states and 20 countries with mine in a week. The dx is waiting for you! I am a first time builder with SMT.
Dave K1THP

--- In AT_Sprint@yahoogroups.com, "WA0ITP" <wa0itp@...> wrote:
>
> This thread has me wondering if I should delay building to see if
> there is a final version that Steve, or someone, may wish to flash for
> the group. Is it worth the wait?
>
> ----------
> I love this radio stuff !
> 72, 73 Terry, WAØITP
> wa0itp@...
> www.wa0itp.com
> www.4sqrp.com
> www.qrpspots.com
>

9313. Re: [AT_Sprint] ats-3b1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 12:52:19 UTC
From: rOn
Topic: 9302 Message: 9313

http://www.ebay.com/itm/150770513666

Ebay says he bought it recently.

rOn

From: Hank Greeb <n8xx@...>
To: AT_Sprint@yahoogroups.com
Sent: Friday, May 25, 2012 10:52 PM
Subject: Re: [AT_Sprint] ats-3b1

ebay reports 100% satisfied customers, so the guy must have something going for him.

On 5/25/2012 8:05 PM, Gil WA5YKK wrote:
On 5/25/2012 4:39 PM, Arthur Ripple wrote:
>
>>regarding the person on e-bay I sent him a message asking about his call
>>and it was his novise call expired menny years ago
>>Arthur NS7E
>>
>>
Arthur;
>
> That makes a little sense, only real problem being that the "WD"
part of the callsign makes my radar go up - unless the Fox Charlie
Charlie dropped the "N" for Novice a long time ago, too. There are
simply too many people who use and abuse the Internet and email
with fraud in mind, thus I give eBay sellers a long whiff before
committing for a sale. Got burned five times, took money out of my
bank account that was intended for a ham radio project! Have
talked to wannabe hams who sounded very convincing, then the rigs
they used were old CB doorstops.
>
>My 2 cent's worth, is all.
>
>73's
>Gil WA5YKK
>

9314. Re: MT not dits nor dahs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 13:14:25 UTC
From: n1rx
Topic: 9290 Message: 9314

Glad you got it working, Jerry! Maybe see you at Lobstercon?
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "ohwenzelph" <ohwenzelph@...> wrote:
> Hi Dale,
> with very close inspection the soldering looked good, tried to reflash it but kept being 'not recognized', had set it up for 40 and 20 and it would give a four but not a two. even though it looked good i slathered the fine pins with solder and then wicked the bridges figuring got nothing to lose, might as well try it, i would not have believed it, all is as it should be.... reflashed and installed L-14. really really hard to believe.
> 72/73 & tnx
> jerry aa1of franconia nh
>

9315. ATS4 CD

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 14:24:43 UTC
From: bob_nelson_k2qpn
Topic: 7137 Message: 9315

Can someone send me the MPS folder from your ATS4(original) CD? I'd like to flash the firmware and for some reason my MPS folder is for an ATS4A.

73,
Bob K2QPN
k2qpn@...

9316. Re: ATS4 CD

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 14:50:36 UTC
From: n1rx
Topic: 7137 Message: 9316

Done. -N1RX

--- In AT_Sprint@yahoogroups.com, "bob_nelson_k2qpn" <K2QPN@...> wrote:
>
> Can someone send me the MPS folder from your ATS4(original) CD? I'd like to flash the firmware and for some reason my MPS folder is for an ATS4A.
>
> 73,
> Bob K2QPN
> k2qpn@...
>

9317. Re: MT not dits nor dahs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 15:25:13 UTC
From: jgaffke
Topic: 9290 Message: 9317

You can often find a bad solder job at a fine pitch
pin by pushing at it a bit with an exacto knife blade.
If you see it move, it's not soldered down.
Jerry KE7ER

9318. ATS3B.1 for sale, with attachments

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 16:09:54 UTC
From: billg5x
Topic: 9318 Message: 9318

rotary encoder, frequency counter, displays tuned frequency, tenna dipper, audio amp, attenuator. Tenna dipper and tuner not currently attached. Works well except low output and receive on 40 meters. Problems with 40 meter board. Deployment is a little sloppy, but works. Picture can be seen under photos, this group, my call sign. Last picture is current configuration, ats3b1anotated.jpg.

Paypal only, lower 48 only please, free shipping. Price: $225.

Bill, ni5x.

9319. RE: [AT_Sprint] MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 20:17:55 UTC
From: wmorrill@montana.edu
Topic: 9300 Message: 9319

Dale- Am not getting any sidetone anywhere.... I reflowed a lot of solder, and rechecked voltages. One problem showed up- at U10, the MPS430 MPU, voltage at pins 5 and 6 was 0.37 and 0.08, respectively, when they should have been 2.7 and 1.7. These pins go to crystal X6. Connections and traces to and from the crystal are OK. Do you think the crystal is faulty, and could be the source of the problem?

I don't want to bother Steven with this problem if I can figure it out by myself.

>
> How about a vom, on ac.. look for the sidetone as it goes into the audio
> amp... and trace it back?
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: november7wm@...
> Date: Fri, 25 May 2012 22:44:48 +0000
> Subject: [AT_Sprint] MTR annunciation
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> Problem- no annuciation when the rig is powered on, although 2 or 4
> shows up in the display. Also, there is no annunciation in the
> phones when the rig is keyed, or when the various switches are
> pressed.
>
>
>
> Situation- Signals are received fine, so the earphones and jack are OK.
> Voltages appear OK for the audio amps, mixer, U9, and U6. The voltage for
> the drain of the keying transistor rises when a string of dashes are sent.
> 9 Volts.
>
>
>
> What am I missing? LO frequency and BFO adjustment? I don't have a
> scope.
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> Suggestions?
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> N7WM
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> Wendell in Montana
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9320. RE: [AT_Sprint] MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 20:28:41 UTC
From: Dale Putnam
Topic: 9300 Message: 9320

If everything else looks to be working except the sidetone, it seems to me that the osc would be working. Is there anything out of pin 3 of U10? It might be that the sidetone line is shorted, so lifting R28 might help too. Do you have a scope or tone generator? subbing in a tiny bit of tone onto R28 would help tell where to look too.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: wmorrill@...
Date: Sat, 26 May 2012 14:17:55 -0600
Subject: RE: [AT_Sprint] MTR annunciation

Dale- Am not getting any sidetone anywhere.... I reflowed a lot of solder,

and rechecked voltages. One problem showed up- at U10, the MPS430 MPU,

voltage at pins 5 and 6 was 0.37 and 0.08, respectively, when they should

have been 2.7 and 1.7. These pins go to crystal X6. Connections and

traces to and from the crystal are OK. Do you think the crystal is

faulty, and could be the source of the problem?

I don't want to bother Steven with this problem if I can figure it out by

myself.

>

> How about a vom, on ac.. look for the sidetone as it goes into the audio

> amp... and trace it back?

>

> --... ...--

> Dale - WC7S in Wy

> To: AT_Sprint@yahoogroups.com

> From: november7wm@...

> Date: Fri, 25 May 2012 22:44:48 +0000

> Subject: [AT_Sprint] MTR annunciation

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> Problem- no annuciation when the rig is powered on, although 2 or 4

> shows up in the display. Also, there is no annunciation in the

> phones when the rig is keyed, or when the various switches are

> pressed.

>

>

>

> Situation- Signals are received fine, so the earphones and jack are OK.

> Voltages appear OK for the audio amps, mixer, U9, and U6. The voltage for

> the drain of the keying transistor rises when a string of dashes are sent.

> 9 Volts.

>

>

>

> What am I missing? LO frequency and BFO adjustment? I don't have a

> scope.

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> Suggestions?

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> N7WM

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> Wendell in Montana

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9321. Re: MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 20:38:11 UTC
From: n1rx
Topic: 9300 Message: 9321

Doubtful that the crystal is bad. The fact that the rig powers up and displays the appropriate number (2 or 4) means the MCU is running (using the crystal for it's clock).

You could try using your headphones as a signal tracer. Connect the "common" lead of the phones to ground, and use a clip lead to connect to the tip of the phones. Then using a clipped resistor lead or similar attached to the other end of the clip lead as a probe, see if you can detect the annunciation outputs from the sidetone line of the MCU (pin 3), or on that end of R28. I am not sure how much signal is there, but I would expect you to be able to hear something with a modern high efficiency headphone/earbud.

GL,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, wmorrill@... wrote:
>
> Dale- Am not getting any sidetone anywhere.... I reflowed a lot of solder,
> and rechecked voltages. One problem showed up- at U10, the MPS430 MPU,
> voltage at pins 5 and 6 was 0.37 and 0.08, respectively, when they should
> have been 2.7 and 1.7. These pins go to crystal X6. Connections and
> traces to and from the crystal are OK. Do you think the crystal is
> faulty, and could be the source of the problem?
>
> I don't want to bother Steven with this problem if I can figure it out by
> myself.
>

9322. Re: MT not dits nor dahs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 16:39:59 UTC
From: wa2ohf
Topic: 9290 Message: 9322

Could it be the option if you power it up with a 2 prong cord in the
key jack it will go to straight key mode?
try no plug in the jack or check the wiring to the jack for reversals
Arthur NS7E

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> You can often find a bad solder job at a fine pitch
> pin by pushing at it a bit with an exacto knife blade.
> If you see it move, it's not soldered down.
> Jerry KE7ER
>

9323. Re: MT not dits nor dahs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 20:51:20 UTC
From: n1rx
Topic: 9290 Message: 9323

Jerry's last message said he had it working, after reflowing some connections.
-Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "wa2ohf" <arthurripple@...> wrote:
>
> Could it be the option if you power it up with a 2 prong cord in the
> key jack it will go to straight key mode?
> try no plug in the jack or check the wiring to the jack for reversals
> Arthur NS7E
>
> --- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@> wrote:
> >
> > You can often find a bad solder job at a fine pitch
> > pin by pushing at it a bit with an exacto knife blade.
> > If you see it move, it's not soldered down.
> > Jerry KE7ER
> >
>

9324. Re: [AT_Sprint] Re: MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 23:13:04 UTC
From: Yannick DEVOS (XV4Y)
Topic: 9300 Message: 9324

Hi,

The MSP430 has 3 clocks : one for the CPU, one for peripherals one for accessories.
I don't know Steve's design but the internal clock for the CPU could be working while the external xtal clock for the accessories not.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 27 mai 2012 à 03:38, n1rx a écrit :

> Doubtful that the crystal is bad. The fact that the rig powers up and displays the appropriate number (2 or 4) means the MCU is running (using the crystal for it's clock).
>
> You could try using your headphones as a signal tracer. Connect the "common" lead of the phones to ground, and use a clip lead to connect to the tip of the phones. Then using a clipped resistor lead or similar attached to the other end of the clip lead as a probe, see if you can detect the annunciation outputs from the sidetone line of the MCU (pin 3), or on that end of R28. I am not sure how much signal is there, but I would expect you to be able to hear something with a modern high efficiency headphone/earbud.
>
> GL,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, wmorrill@... wrote:
>>
>> Dale- Am not getting any sidetone anywhere.... I reflowed a lot of solder,
>> and rechecked voltages. One problem showed up- at U10, the MPS430 MPU,
>> voltage at pins 5 and 6 was 0.37 and 0.08, respectively, when they should
>> have been 2.7 and 1.7. These pins go to crystal X6. Connections and
>> traces to and from the crystal are OK. Do you think the crystal is
>> faulty, and could be the source of the problem?
>>
>> I don't want to bother Steven with this problem if I can figure it out by
>> myself.
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> Yahoo! Groups Links
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9325. Re: MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-26 23:52:17 UTC
From: n1rx
Topic: 9300 Message: 9325

A good point, Yan. I have not studied the source code to know which clocks Steve may have used.

-Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Yannick DEVOS (XV4Y)" <yannick.devos@...> wrote:
>
> Hi,
>
> The MSP430 has 3 clocks : one for the CPU, one for peripherals one for accessories.
> I don't know Steve's design but the internal clock for the CPU could be working while the external xtal clock for the accessories not.
>
> 73,
> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
>
> Le 27 mai 2012 à 03:38, n1rx a écrit :
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> > Doubtful that the crystal is bad. The fact that the rig powers up and displays the appropriate number (2 or 4) means the MCU is running (using the crystal for it's clock).
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> > You could try using your headphones as a signal tracer. Connect the "common" lead of the phones to ground, and use a clip lead to connect to the tip of the phones. Then using a clipped resistor lead or similar attached to the other end of the clip lead as a probe, see if you can detect the annunciation outputs from the sidetone line of the MCU (pin 3), or on that end of R28. I am not sure how much signal is there, but I would expect you to be able to hear something with a modern high efficiency headphone/earbud.
> >
> > GL,
> > Bruce, N1RX
> >
> > --- In AT_Sprint@yahoogroups.com, wmorrill@ wrote:
> >>
> >> Dale- Am not getting any sidetone anywhere.... I reflowed a lot of solder,
> >> and rechecked voltages. One problem showed up- at U10, the MPS430 MPU,
> >> voltage at pins 5 and 6 was 0.37 and 0.08, respectively, when they should
> >> have been 2.7 and 1.7. These pins go to crystal X6. Connections and
> >> traces to and from the crystal are OK. Do you think the crystal is
> >> faulty, and could be the source of the problem?
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> >> I don't want to bother Steven with this problem if I can figure it out by

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> >> myself.
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> > Yahoo! Groups Links
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9326. Re: [AT_Sprint] Re: MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-27 01:47:27 UTC
From: Michael Harnage
Topic: 9300 Message: 9326

I believe he uses the square osc for freq generation and the 32768 osc for everything else. The mpu itself runs at it's own internal osc speed.

-mike/w1mt

>--- In AT_Sprint@yahoogroups.com, "Yannick DEVOS (XV4Y)" <yannick.devos@...> wrote:
>>
>> Hi,
>>
>> The MSP430 has 3 clocks : one for the CPU, one for peripherals one for accessories.
>> I don't know Steve's design but the internal clock for the CPU could be working while the external xtal clock for the accessories not.
>>
>

9327. RE: [AT_Sprint] MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-27 02:19:37 UTC
From: wmorrill@montana.edu
Topic: 9300 Message: 9327

Dale- Am reading nothing at pin 3 of U10. Of course, pin 3 is for the sidetone, and should be showing 2.5V.
I have a Hendriks signal tracer/injector. A signal injected at R28 was audible all the way through to the phone jack, so probably there is no problem in that circuit.
I also have a tester for capacitance and inductance that can handle surface mount components.
How does U10 generate the sidetone?
Am I missing something simple? I use the menue to go to P, then toggle down, the P remains in the display until I hit the menue switch again.
Should the P go off by itself?
No sidetone in response to the keyer, either.
Am checking solder connections by using a 10X dissecting microscope.
I have a cheap DSO scope that needs to be upgraded to be useful.
Thanks to everyone who is responding.
Am hearing a lot of signals on 20 and 40.

Wendell

>
> If everything else looks to be working except the sidetone, it seems to me
> that the osc would be working. Is there anything out of pin 3 of U10? It
> might be that the sidetone line is shorted, so lifting R28 might help too.
> Do you have a scope or tone generator? subbing in a tiny bit of tone onto
> R28 would help tell where to look too.
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: wmorrill@...
> Date: Sat, 26 May 2012 14:17:55 -0600
> Subject: RE: [AT_Sprint] MTR annunciation
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> Dale- Am not getting any sidetone anywhere.... I reflowed a lot of
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> and rechecked voltages. One problem showed up- at U10, the MPS430 MPU,
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> voltage at pins 5 and 6 was 0.37 and 0.08, respectively, when they should
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> have been 2.7 and 1.7. These pins go to crystal X6. Connections and
>
> traces to and from the crystal are OK. Do you think the crystal is
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>> How about a vom, on ac.. look for the sidetone as it goes into the audio
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>> amp... and trace it back?
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>> --... ...--
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>> Dale - WC7S in Wy
>
>> To: AT_Sprint@yahoogroups.com
>
>> From: november7wm@...
>

>> Date: Fri, 25 May 2012 22:44:48 +0000
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>> Subject: [AT_Sprint] MTR annunciation
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9328. RE: [AT_Sprint] MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-27 02:38:58 UTC
From: Dale Putnam
Topic: 9300 Message: 9328

Hi Wendall, Is everything else seemingly working? All except the sidetone... ///How about returning the rig to its default, by holding the menu button while powering up the radio.It may be that the radio got confused. Starting from default, might make it come around to letting you hear a sidetone.If there are other things that are acting up.. maybe starting from default will clear them too.I bet it will start working for you, pretty soon. Murphy will tire of it soon.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: wmorrill@...
Date: Sat, 26 May 2012 20:19:37 -0600
Subject: RE: [AT_Sprint] MTR annunciation

Dale- Am reading nothing at pin 3 of U10. Of course, pin 3 is for the

sidetone, and should be showing 2.5V.

I have a Hendriks signal tracer/injector. A signal injected at R28 was

audible all the way through to the phone jack, so probably there is no

problem in that circuit.

I also have a tester for capacitance and inductance that can handle

surface mount components.

How does U10 generate the sidetone?

Am I missing something simple? I use the menue to go to P, then toggle

down, the P remains in the display until I hit the menue switch again.

Should the P go off by itself?

No sidetone in response to the keyer, either.

Am checking solder connections by using a 10X dissecting microscope.

I have a cheap DSO scope that needs to be upgraded to be useful.

Thanks to everyone who is responding.

Am hearing a lot of signals on 20 and 40.

Wendell

>

> If everything else looks to be working except the sidetone, it seems to me

> that the osc would be working. Is there anything out of pin 3 of U10? It

> might be that the sidetone line is shorted, so lifting R28 might help too.

> Do you have a scope or tone generator? subbing in a tiny bit of tone onto

> R28 would help tell where to look too.

>

> --... ...--

> Dale - WC7S in Wy

> To: AT_Sprint@yahoogroups.com

> From: wmorrill@...

> Date: Sat, 26 May 2012 14:17:55 -0600

> Subject: RE: [AT_Sprint] MTR annunciation

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> solder,

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> and rechecked voltages. One problem showed up- at U10, the MPS430 MPU,

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> voltage at pins 5 and 6 was 0.37 and 0.08, respectively, when they should

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> have been 2.7 and 1.7. These pins go to crystal X6. Connections and

>

> traces to and from the crystal are OK. Do you think the crystal is

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> I don't want to bother Steven with this problem if I can figure it out by

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>> Dale - WC7S in Wy

>

>> To: AT_Sprint@yahoogroups.com

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>> From: november7wm@...

>

>> Date: Fri, 25 May 2012 22:44:48 +0000

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>> Subject: [AT_Sprint] MTR annunciation

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9329. Re: ATS3B.1 for sale, with attachments

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-27 12:27:29 UTC
From: bgriffin
Topic: 9318 Message: 9329

To be clear about the ats3b.1, it is well built, it was my fourth build, the sloppy part is the
external wiring for the audio amp, pots. etc. The tin case has some extra holes in it
and the lid is beat up. But the radio, encoder and tenna dipper are all well built and
working.
If anyone is interested you can contact me off list bgriffin at symbol
olp dot n e t.
I can also pull the radio and rotary encoder out of the enclosure and ship those alone
for $200.

Bill, ni5x

9330. RE: [AT_Sprint] MTR annunciation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-27 14:33:50 UTC
From: wmorrill@montana.edu
Topic: 9300 Message: 9330

Dale- I have tried the default trick a couple of times, will do it again
this morning. Am running out of ideas. Thanks for your help.
Wendell N7WM

>
> Hi Wendall, Is everything else seemingly working? All except the
> sidetone... ///How about returning the rig to its default, by holding the
> menu button while powering up the radio.It may be that the radio got
> confused. Starting from default, might make it come around to letting you
> hear a sidetone.If there are other things that are acting up.. maybe
> starting from default will clear them too.I bet it will start working for
> you, pretty soon. Murphy will tire of it soon.
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> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: wmorrill@...
> Date: Sat, 26 May 2012 20:19:37 -0600
> Subject: RE: [AT_Sprint] MTR annunciation
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>
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>
> I also have a tester for capacitance and inductance that can handle
>
> surface mount components.
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> How does U10 generate the sidetone?
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> Am I missing something simple? I use the menue to go to P, then toggle
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> down, the P remains in the display until I hit the menue switch again.
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> Should the P go off by itself?
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> No sidetone in response to the keyer, either.
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> Am checking solder connections by using a 10X dissecting microscope.
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> I have a cheap DSO scope that needs to be upgraded to be useful.
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> Thanks to everyone who is responding.
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> Am hearing a lot of signals on 20 and 40.
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>> Do you have a scope or tone generator? subbing in a tiny bit of tone

>> onto
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>> R28 would help tell where to look too.
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>>> To: AT_Sprint@yahoogroups.com
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>>> From: november7wm@...
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>>> Date: Fri, 25 May 2012 22:44:48 +0000
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9331. Re: ATS3B.1 for sale, with attachments

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-27 16:22:35 UTC
From: wa2ohf
Topic: 9318 Message: 9331

When I did my rig it worked fine
then I mounted in a tin and because I had the sleve and center pin of the audio reversed on the jack it grounded out no side tone could this be your problem?
Arthur NS7E

--- In AT_Sprint@yahoogroups.com, bgriffin <bgriffin@...> wrote:
>
> To be clear about the ats3b.1, it is well built, it was my fourth build,
> the sloppy part is the
> external wiring for the audio amp, pots. etc. The tin case has some
> extra holes in it
> and the lid is beat up. But the radio, encoder and tenna dipper are all
> well built and
> working.
> If anyone is interested you can contact me off list bgriffin at symbol
> olp dot n e t.
> I can also pull the radio and rotary encoder out of the enclosure and
> ship those alone
> for $200.
>
> Bill, ni5x
>

9332. Re: MT not dits nor dahs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-28 01:41:09 UTC
From: ohwenzelph
Topic: 9290 Message: 9332

Hi Art,
Thanks for the suggestion, I do appreciate the effort and the input.
Solder joints that after very close inspection I was really pretty sure had to be good, must have been not quite good enough, or so it seems, because after reflowing them the problems are now gone. I suspect that in fumbling around while initially placing the chip I probably bent some of the pins up just a tiny bit, so with the chip laying "flat", most of the pins are in exactly the same plane and nicely soldered to the board underneath, but a few were ever so slightly bent up and floating just high enough that the sparse solder, while it had wetted the pins and pads, had not filled the gap. (Anyhow, kinda sounds like a good theory....)
72/73
jerry aa1of

--- In AT_Sprint@yahoogroups.com, "wa2ohf" <arthurripple@...> wrote:
>
> Could it be the option if you power it up with a 2 prong cord in the
> key jack it will go to straight key mode?
> try no plug in the jack or check the wiring to the jack for reversals
> Arthur NS7E

9333. RE: [AT_Sprint] Re: MT not dits nor dahs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-28 01:45:17 UTC
From: Dale Putnam
Topic: 9290 Message: 9333

Yes, Jerry, that happens, can be seen with a whole lotta light, and a bunch of magnification.Way to go!!

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: ohwenzelph@...
Date: Mon, 28 May 2012 01:41:09 +0000
Subject: [AT_Sprint] Re: MT not dits nor dahs

Hi Art,

Thanks for the suggestion, I do appreciate the effort and the input.

Solder joints that after very close inspection I was really pretty sure had to be good, must have been not quite good enough, or so it seems, because after reflowing them the problems are now gone. I suspect that in fumbling around while initially placing the chip I probably bent some of the pins up just a tiny bit, so with the chip laying "flat", most of the pins are in exactly the same plane and nicely soldered to the board underneath, but a few were ever so slightly bent up and floating just high enough that the sparse solder, while it had wetted the pins and pads, had not filled the gap. (Anyhow, kinda sounds like a good theory....)

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--- In AT_Sprint@yahoogroups.com, "wa2ohf" <arthurripple@...> wrote:

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> Could it be the option if you power it up with a 2 prong cord in the

> key jack it will go to straight key mode?

> try no plug in the jack or check the wiring to the jack for reversals

> Arthur NS7E

9334. ATS rigs in the CQ WPX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-28 02:48:22 UTC
From: camqrp@verizon.net
Topic: 9334 Message: 9334

Just putting the finishing touches on my MTR and the WPX contest started, so I dove in to see how it would play. Had a blast on 20 meters. The band was open and I managed to pick off several Europeans. This is not such an easy feat from my QTH which is hard against the foothills of the San Gabriel mountains, east of LA, with a 10,000 foot granite Faraday shield to the Northeast.

I QSYd to 40 meters and the big signals absolutely crunched the little MTR, providing me a graphic demonstration of what it's like to operate 40 from the middle of Europe. No problem, I switched to my ATS-3A which has an added RF attenuator in front of the receiver and I was again off to the races. Plenty of Qs available on this band and for reasons unknown, this rig has the best QSK of all my KD1JV rigs. A real pleasure to operate.

Sunday morning and 15 was alive, so I pulled out the ATS-4 and went to work on that band. Once again, lots of Qs and lots of fun.

OBTW, my power source for all these Qs was a battery pack made by taping together 3 used cell-phone batteries.

Don't need no stinkin' KX-3.

Cam N6GA

PS - But if one showed up on my doorstep, welll....

9335. Re: [AT_Sprint] ATS rigs in the CQ WPX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-28 03:11:43 UTC
From: Hank Greeb
Topic: 9334 Message: 9335

Cam:

Nice 2 work you on the MTR before the CQWPX. As I told you, I had tuned up my rig, worked one other fellow, and was arranging some of the junque in the shack with the speaker on. When I heard you say you were using a MTR, I had to jump in and say "Hi".

Nice sigs from your MTR on 20 M.

72/73 de n8xx Hg

On 5/27/2012 10:48 PM, camqrp@... wrote:
> Just putting the finishing touches on my MTR and the WPX contest started, so I dove in to see how it would play. Had a blast on 20 meters. The band was open and I managed to pick off several Europeans. This is not such an easy feat from my QTH which is hard against the foothills of the San Gabriel mountains, east of LA, with a 10,000 foot granite Faraday shield to the Northeast.
>
> I QSYd to 40 meters and the big signals absolutely crunched the little MTR, providing me a graphic demonstration of what it's like to operate 40 from the middle of Europe. No problem, I switched to my ATS-3A which has an added RF attenuator in front of the receiver and I was again off to the races. Plenty of Qs available on this band and for reasons unknown, this rig has the best QSK of all my KD1JV rigs. A real pleasure to operate.
>
> Sunday morning and 15 was alive, so I pulled out the ATS-4 and went to work on that band. Once again, lots of Qs and lots of fun.
>
> OBTW, my power source for all these Qs was a battery pack made by taping together 3 used cell-phone batteries.
>
> Don't need no stinkin' KX-3.
>
> Cam N6GA
>
> PS - But if one showed up on my doorstep, welll....

9336. Re: ATS rigs in the CQ WPX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-28 13:41:07 UTC
From: camqrp@verizon.net
Topic: 9334 Message: 9336

Hank -

I did hear you in the contest but couldn't raise you as you were much too busy working Eu DX ;)

Tnx,

Cam N6GA

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
> Cam:
>
> Nice 2 work you on the MTR before the CQWPX. As I told you, I had tuned
> up my rig, worked one other fellow, and was arranging some of the junque
> in the shack with the speaker on. When I heard you say you were using a
> MTR, I had to jump in and say "Hi".
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> Nice sigs from your MTR on 20 M.
>
> 72/73 de n8xx Hg
>

9337. MTR: Flexing Altoids detunes MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-28 15:31:21 UTC
From: wrmoore47
Topic: 9337 Message: 9337

My MTR is working fine, but I accidentally discovered that if I put a little pressure on the Altoids tin near the upper band toggle switch, signals drop way down to almost nothing. Releasing the pressure returns things to normal. I've checked to make sure the switch enclosure is grounded. What else could be causing this???

73,
Randy, KS4L

9338. Re: MTR: Flexing Altoids detunes MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-28 16:09:09 UTC
From: n1rx
Topic: 9337 Message: 9338

Most likely a marginal solder connection. Another possibility is a hairline crack in a capacitor.

It is unlikely that you are actually "detuning" the rig. The DDS chip does not shift frequency like an analog VFO might. It sounds more like a loss of signal in the receive chain, as you slightly flex the board, Hence, my theory of a marginal connection somewhere...

GL,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "wrmoore47" <wrmoore47@...> wrote:
>
> My MTR is working fine, but I accidentally discovered that if I put a little pressure on the Altoids tin near the upper band toggle switch, signals drop way down to almost nothing. Releasing the pressure returns things to normal. I've checked to make sure the switch enclosure is grounded. What else could be causing this???
>
> 73,
> Randy, KS4L
>

9339. Weber dual band

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-28 20:42:07 UTC
From: wa2ohf
Topic: 9339 Message: 9339

I have a weber dual band set up 15 and 80 mtrs
for sale it was 220 as a kit from hendricks kits
works great Steve aligned it 30 bucks works great
and has 3 digit display and tuning knob
will sell for 180 + shipping
NS7E Art 952-758-2421
73

9340. [TRI-BANDER] Decals and Finished

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-28 23:58:29 UTC
From: Jay
Topic: 9101 Message: 9340

Fellow KD1JV enthusiasts,

I finished my tri-bander this evening and all works great. It was tested against my K2 and I am very happy with the results. My WM2 shows 5 watts on 80m, about 4.5 watts on 40m, and 4 watts on 20m. The tri-bander signal sounds great on my K2 with no chirps and no raspiness. This is going to be a fun radio for the fox hunts. I got the 80m, 40m, and 20m bands for my radio.

Tom N0BS, I have to agree with you. I would pay extra for a silk screened case as opposed to using decals. After getting the decals mounted and somewhat straight, I sprayed 2 light coats of Krylon satin clear on the case. The edges of the decal are still visible. Decals work, but they still look like decals on the finished product.

I have a Brother PT2100 label printer that I used to produce labels for my project case (from Hendricks QRP Kits) to support the tri-bander. This case includes fused power, reverse voltage protection, NESCAF filter, and a voltage readout. All total, 10 labels with black text on clear backing were produced for the case. When the smoke clears, this method was easier than decals as the labels just peel off the backing and stick where I put them. The case was prepped with 2 thin layers of satin Krylon clear, labels applied, and 2 more thin layers of satin Krylon clear applied. While the edges of the labels can still be seen, my main effort was to produce custom labels for this project and I am pleased with the results.

I look forward to getting the tri-bander on the air.

Vy 73 to all

Jay
AJ4AY
Mobile, AL

Jay,
The SLT+ case is really nice, but I would have gladly paid more if it were silk screened instead of using decals.
I coated mine with Krylon clear satin to protect the decals, and was not happy with the result. The paint on top of the decal material has more gloss than the areas of bare aluminum - they turned "frosty", noticeably different from the decals. It is only noticeable at certain angles of light, but . . . not a perfect result. Too late - nothing I can do about it now. Using a clear gloss might work better.
If you want to experiment, I would recommend putting some of the spare decals on the inside of the case and test spraying over them - let it sit for a few days, and see what happens.
Good luck - let us know if you find something that works well.
If I had it to do over again, I think I would make my own cover art, laminate it

in plastic, and attach it with spray adhesive of small screws. That is what I did with my MTR and I think it turned out very well. Then, if I want to change the cover look in the future, or it gets too scratched up to, it is easy to do.
73, Tom N0BS

--- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> , "Jay" <aj4ay@...> wrote:
>
> Fellow builders and friends,
>
> I have picked up the SLT+, the TRI-BANDER, and a project box from Hendricks QRP.
> All 3 have, what I call, a burnished aluminum case, and quite good looking in my
> opinion.
>
> How do you handle these cases to keep them looking good? All 3 of my cases will
> be used together as part of a "throw it in the backpack and go" to the field
> operation.
>
> Would it be better to put Krylon "CLEAR" on the boxes before applying the decals
> and then a second coat of the CLEAR?
>
> Or would it be better to apply the decals and just CLEAR coat everything?
>
> Any opinions?
>
> Jay
> AJ4AY
> Mobile, AL
>

<http://geo.yahoo.com/serv?s=97359714/grpId=18035723/grpspId=1705063108/msgId=9115/stime=1336236732/nc1=5522124/nc2=5898818/nc3=4025338>

9341. QRP KITS SLT+

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-28 23:56:22 UTC
From: k1thp
Topic: 9341 Message: 9341

Has anyone had experience using the QRP KITS SLT+ with random lengths of wire in the field (preferably with a sprint family transceiver)? I know KD1JV is the designer but wonder what the occasional field operator thinks of it? I am thinking of getting one to use with my MTR in VT on vacation this July.

73,

Dave K1THP

9342. Re: [AT_Sprint] QRP KITS SLT+

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 00:20:49 UTC
From: cloud runner
Topic: 9341 Message: 9342

I homebrewed the tuner into an Altoids box, much lighter, smaller. Haven't used it much, but it tunes all sorts of resistors just fine ;-)

73 fred - kt5x

----- Original Message -----
From: k1thp
To: AT_Sprint@yahoogroups.com
Sent: Monday, May 28, 2012 5:56 PM
Subject: [AT_Sprint] QRP KITS SLT+

Has anyone had experience using the QRP KITS SLT+ with random lengths of wire in the field (preferably with a sprint family transceiver)? I know KD1JV is the designer but wonder what the occasional field operator thinks of it? I am thinking of getting one to use with my MTR in VT on vacation this July.

73,

Dave K1THP

9343. Re: QRP KITS SLT+

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 00:27:09 UTC
From: harry latterman
Topic: 9341 Message: 9343

No experience at this time. It is on my lost of home brew, got to try it, projects. However here is a link to a QST Short Take review. My personal feeling is that is should work very good. One version I saw, and have a copy of a write up put away safe...aaaahhh, has it built in a Altoids mint box using the small jumpers used in computers instead of toggle switches. In any case it works on the same basic design idea as a LDG ATU. But you are the computer.... Hope this helped

Link:
http://k3ark.com/20080501QST-FTM10Review/QST%20Review.pdf

73
Harry K7ZOV

9344. Re: [AT_Sprint] QRP KITS SLT+

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 01:46:53 UTC
From: WA0ITP
Topic: 9341 Message: 9344

It might be fun to roll your own. There's several L network calculators out there to play what if games with, here's one
http://www.daycounter.com/Calculators/L-Matching-Network-Calculator.phtml
---
I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: cloud runner
To: AT_Sprint@yahoogroups.com
Sent: Monday, May 28, 2012 7:20 PM
Subject: Re: [AT_Sprint] QRP KITS SLT+

I homebrewed the tuner into an Altoids box, much lighter, smaller. Haven't used it much, but it tunes all sorts of resistors just fine ;-)

73 fred - kt5x

----- Original Message -----
From: k1thp
To: AT_Sprint@yahoogroups.com
Sent: Monday, May 28, 2012 5:56 PM
Subject: [AT_Sprint] QRP KITS SLT+

Has anyone had experience using the QRP KITS SLT+ with random lengths of wire in the field (preferably with a sprint family transceiver)? I know KD1JV is the designer but wonder what the occasional field operator thinks of it? I am thinking of getting one to use with my MTR in VT on vacation this July.

73,

Dave K1THP

9345. What is the differences between the ats4 and the later a and b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 03:33:11 UTC
From: harry l
Topic: 9345 Message: 9345

I just got a ATS4 and the owner said it was not a A or B model. Checking the lastest manual on line with the one that came with is does not indicate and major differences. Any comments would be greatly appreciated. One other thing. Has anyone tired PSK31 or RTTY with the radio. If so any comments on that also. Thank you

73
Harry K7ZOV

9346. RE: [AT_Sprint] What is the differences between the ats4 and the later a and b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 13:42:31 UTC
From: Dale Putnam
Topic: 9345 Message: 9346

Hi Harry, The main difference between the no version and the later versions is moving the "on" switch to the top panel. That puts 5 buttons on top in the later versions.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: harrylatterman@...
Date: Tue, 29 May 2012 03:33:11 +0000
Subject: [AT_Sprint] What is the differences between the ats4 and the later a and b

I just got a ATS4 and the owner said it was not a A or B model. Checking the lastest manual on line with the one that came with is does not indicate and major differences. Any comments would be greatly appreciated. One other thing. Has anyone tired PSK31 or RTTY with the radio. If so any comments on that also. Thank you

73

Harry K7ZOV

9347. Re: [AT_Sprint] What is the differences between the ats4 and the later a and b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 13:45:50 UTC
From: John Shadle
Topic: 9345 Message: 9347

Wasn't there a difference in the display, as well? I think the "B" had more of a dot-type display, but I could be wrong.

-john W4PAH
Madison, WI

9348. RE: [AT_Sprint] What is the differences between the ats4 and the later a and b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 13:51:53 UTC
From: harry latterman
Topic: 9345 Message: 9348

Hi Dale,

Thanks for the info. Just a FYI. It appears you know the radio I have. Does the name Furman and the call sign W4MJT and a power mod sound familiar?

73
Harry

--- On Tue, 5/29/12, Dale Putnam <daleputnam@...> wrote:

From: Dale Putnam <daleputnam@...>
Subject: RE: [AT_Sprint] What is the differences between the ats4 and the later a and b
To: "AT Sprint" <at_sprint@yahoogroups.com>
Date: Tuesday, May 29, 2012, 6:42 AM

Hi Harry,
  The main difference between the no version and the later versions is moving the "on" switch to the top panel. That puts 5 buttons on top in the later versions.

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: harrylatterman@...
Date: Tue, 29 May 2012 03:33:11 +0000
Subject: [AT_Sprint] What is the differences between the ats4 and the later a and b

I just got a ATS4 and the owner said it was not a A or B model. Checking the lastest manual on line with the one that came with is does not indicate and major differences. Any comments would be greatly appreciated. One other thing. Has anyone tired PSK31 or RTTY with the radio. If so any comments on that also. Thank you

73

Harry K7ZOV

9349. RE: [AT_Sprint] What is the differences between the ats4 and the later a and b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 13:56:10 UTC
From: Dale Putnam
Topic: 9345 Message: 9349

Yepper, sure does, did you get his?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: harrylatterman@...
Date: Tue, 29 May 2012 06:51:53 -0700
Subject: RE: [AT_Sprint] What is the differences between the ats4 and the later a and b

Hi Dale,

Thanks for the info. Just a FYI. It appears you know the radio I have. Does the name Furman and the call sign W4MJT and a power mod sound familiar?

73
Harry

--- On Tue, 5/29/12, Dale Putnam <daleputnam@hotmail.com> wrote:

From: Dale Putnam <daleputnam@...>
Subject: RE: [AT_Sprint] What is the differences between the ats4 and the later a and b
To: "AT Sprint" <at_sprint@yahoogroups.com>
Date: Tuesday, May 29, 2012, 6:42 AM

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--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: harrylatterman@...
Date: Tue, 29 May 2012 03:33:11 +0000
Subject: [AT_Sprint] What is the differences between the ats4 and the later a and b

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73

Harry K7ZOV

9350. RE: [AT_Sprint] What is the differences between the ats4 and the later a and b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 14:15:53 UTC
From: harry latterman
Topic: 9345 Message: 9350

I traded a KX-1 for it. Reason? I nuts! Well sort of. He had contacted me about something else and one thing led to another and the ATS came up. I was not familiar with it so did some reasearch. One more band, a bit more power, about 1/3 smaller but most of all being able to do PSK and RTTY with a radio much smaller then a FT-817 or my K2. Furman expressed interest and fasincation in the KX1 and in the end he got it and I got the ATS and a few $$$ to offset the difference (his choice and offer not mine...a real gentleman).

Impression so far. Great design. Hears as good if not better then the KX1. Quiet, sensitive and seems to be extremely selective. Kind of miss the adjustable filter the KX1 had, but not that much.

Next trick getting portable digital up. Got the software loaded in my ACER-ONE with xp and in my old HTC Ozone phone running Window 6.1. Did not have time to do my with the ACER and found that the HTC loaded and runs , but it does NOT have a touch screen and I can not get the cursor to move left/right so can not tune. So as it is now garage sale time or ebay to find a cheap PDA running windows. Wish the software had a left and right option other then the display.

So that's the short form of the story.

73
Harry

--- On Tue, 5/29/12, Dale Putnam <daleputnam@...> wrote:

From: Dale Putnam <daleputnam@hotmail.com>
Subject: RE: [AT_Sprint] What is the differences between the ats4 and the later a and b
To: "AT Sprint" <at_sprint@yahoogroups.com>
Date: Tuesday, May 29, 2012, 6:56 AM

Yepper, sure does, did you get his?

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: harrylatterman@...
Date: Tue, 29 May 2012 06:51:53 -0700
Subject: RE: [AT_Sprint] What is the differences between the ats4 and the later a and b

Hi Dale,

Thanks for the info. Just a FYI. It appears you know the radio I have. Does the name Furman and the call sign W4MJT and a power mod sound familiar?

73
Harry

--- On Tue, 5/29/12, Dale Putnam <daleputnam@...> wrote:

From: Dale Putnam <daleputnam@hotmail.com>
Subject: RE: [AT_Sprint] What is the differences between the ats4 and the later a and b
To: "AT Sprint" <at_sprint@yahoogroups.com>
Date: Tuesday, May 29, 2012, 6:42 AM

Hi Harry,
  The main difference between the no version and the later versions is moving the "on" switch to the top panel. That puts 5 buttons on top in the later versions.

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: harrylatterman@...
Date: Tue, 29 May 2012 03:33:11 +0000
Subject: [AT_Sprint] What is the differences between the ats4 and the later a and b

I just got a ATS4 and the owner said it was not a A or B model. Checking the lastest manual on line with the one that came with is does not indicate and major differences. Any comments would be greatly appreciated. One other thing. Has anyone tired PSK31 or RTTY with the radio. If so any comments on that also. Thank you

73

Harry K7ZOV

9351. Re: RE: [AT_Sprint] What is the differences between the ats4 and the later a and b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 14:51:54 UTC
From: Vojtěch Bubník
Topic: 9345 Message: 9351

Harry,

> Did not have time to
> do my with the ACER and found that the HTC loaded and runs , but it does NOT
> have a touch screen and I can not get the cursor to move left/right so can not
> tune. So as it is now garage sale time or ebay to find a cheap PDA running
> windows. Wish the software had a left and right option other then the display.

There is an application, that simulates a mouse cursor with the arrow keys and Ondra OK1CDJ experimented with it.

http://blog.ok1cdj.com/2008/06/jak-lpe-ovldat-pocket-digi-na.html

Ondra is using following application to drive the mouse simulator. There is a demo version, full version is not free.
http://www.bobsoft.com/sphelper/

73, Vojtech OK1IAK

9352. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 15:15:52 UTC
From: Bob Confrey
Topic: 9175 Message: 9352

Dave,
Been off for the Memorial Day holiday here in the US.....I did find that 80M upper band edge is set to 3.700. Hard stop tuning with a single beep.
I did reset the default start freq to my preferences....no need to change that. I had not read far enough in the manual to see that one.
The only real issues are with the band edges being reset. If you come out with new code that would be nice. I can live with the tuning rate being
slower.....80M is still deaf....Still looking into that. So far all component values look ok, at least for the leaded caps. I have to check any SMT caps in the front end...
may be wrong.....TNX!....>Bob....EDJ.....

On Fri, May 25, 2012 at 9:54 AM, Bob Confrey <bobc784@...> wrote:
> Dave,
> I did give the MTR a listen last night and tune up. It switches
> bands nicely now, thanks! However, I'm not pleased with the 80M
> performance. Normally I can peak the input caps
> on band noise. No so on the MTR (on 80M, 40M is ok). I will go
> back and double check the input components. Because of how I had to
> move things around for 80M, it is possible I got a wrong value in the
> front end. I'm also going to compare the values for 80M from the
> ATS-4B to the MTR....I'd think they'd be the same. My 4B works pretty
> well on 80 but the MTR seems pretty deaf. I tried a sig gen on 80 for
> tune up since I could not hear any signals and the peaking on the
> front end caps was weak and broad. Not like 40M.
>
> I did not realize you could set start freq in the preferences....Need
> to read the manual...thanks! If thats the case I can just change
> that, no need to spin the code for me.....
> I'll let you know what else I find.....TNX!...Bob....EDJ....
>
> On Thu, May 24, 2012 at 7:02 PM, David <djblunn@...> wrote:
>> That's good news Bob!
>>
>> I didn't change the tuning rates so let me know if you want them put back to the old rate. I'm not sure if the rate change was part of the band-edge fix or an unrelated change. You can set intial freqs with the preferences option but it should not be any problem to set them in the code for you, although I would probably email you direct with that change as it could lead to config management problems if I post it in the files section.
>>
>> All the best, Dave VK2DDJ
>>

>> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@...> wrote:
>>>
>>> Ok, it appears that I've been successful in getting Dave's latest code
>>> into my MTR. After several attempts that did not appear successful, I
>>> finally used Dave's project files (which set the Debugger to FET per
>>> Jerry's advice) it did work. After pulling the MTR off the Launchpad
>>> and powering up, I was able to get both 40 and 80M band change with
>>> the switches.
>>> I'll try this on an antenna tonight and see if it really
>>> receives.....Thanks for all the help guys.
>>>
>>> BTW Dave, did you change any of the tuning rate values? You
>>> mentioned that it appears Steve dropped the rate from 200 to 100. I
>>> was happy with 200 since I move to slow parts of the
>>> band....While I'm at it maybe I want to reset my default start freq to
>>> my favorite areas? That should not be too hard?.....I'll get back
>>> with results of my tonight tests.....Bob....EDJ....
>>>
>>>
>>> On Thu, May 24, 2012 at 9:58 AM, Bob Confrey <bobc784@...> wrote:
>>> > Good info....I'll check that before I try Dave's latest code at lunch
>>> > time here.....TNX!...Bob....EDJ...
>>> >
>>> > On Thu, May 24, 2012 at 12:16 AM, jgaffke <jgaffke@...> wrote:
>>> >> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
>>> >>> Appeared to all work...Debug window came up
>>> >>> and log said download complete.
>>> >>
>>> >> Not good enough. You get a "download complete" message
>>> >> even if Launchpad is not connected through the USB port,
>>> >> if you have IAR in simulator mode.
>>> >> Verify that Program/Options/Debugger is set to
>>> >> "FET Debugger" and not "Simulator".
>>> >> Maybe someday I'll find time to read the IAR docs,
>>> >> but for now this seems like pretty stupid behavior.
>>> >> Jerry KE7ER
>>> >>
>>> >>
>>> >>
>>> >> ------------------------------------
>>> >>
>>> >> Yahoo! Groups Links
>>> >>
>>> >>
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>>>
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>>

```
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
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>>
```

9353. Re: RE: [AT_Sprint] What is the differences between the ats4 and the later a and b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 15:31:48 UTC
From: harry latterman
Topic: 9345 Message: 9353

Vojtech

Thank you for the lead. When I get home from work I will have more time to look at it. Could be cheaper to buy it then a pocket PC. Besides my HTC Ozone is really light and really small making it really ideal for taking anywhere

Thank you again...have to run

73
Harry

--- On Tue, 5/29/12, Vojtěch Bubník <bubnikv@...> wrote:

From: Vojtěch Bubník <bubnikv@...>
Subject: Re: RE: [AT_Sprint] What is the differences between the ats4 and the later a and b
To: AT_Sprint@...m
Date: Tuesday, May 29, 2012, 7:51 AM

Harry,

> Did not have time to

> do my with the ACER and found that the HTC loaded and runs , but it does NOT

> have a touch screen and I can not get the cursor to move left/right so can not

> tune. So as it is now garage sale time or ebay to find a cheap PDA running

> windows. Wish the software had a left and right option other then the display.

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http://blog.ok1cdj.com/2008/06/jak-lpe-ovldat-pocket-digi-na.html

Ondra is using following application to drive the mouse simulator. There is a demo version, full version is not free.

http://www.bobsoft.com/sphelper/

73, Vojtech OK1IAK

9354. Re: QRP KITS SLT+

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 15:47:41 UTC
From: Tom
Topic: 9341 Message: 9354

Dave,
The SLT+ is nominally designed to be an EFHW wire tuner. I'm not sure how broadband it is for "random length" wires as you asked about. Why use a random length? The tuner works quite well with half wave wires, which will also work on the harmonically related bands. I use one with my MTR. Good luck and enjoy your vacation hamming in VT!
73, Tom

--- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
>
> Has anyone had experience using the QRP KITS SLT+ with random lengths of wire in the field (preferably with a sprint family transceiver)? I know KD1JV is the designer but wonder what the occasional field operator thinks of it? I am thinking of getting one to use with my MTR in VT on vacation this July.
>
> 73,
>
> Dave K1THP
>

9355. Re: QRP KITS SLT+

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 16:08:44 UTC
From: ve3wmb
Topic: 9341 Message: 9355

I have the early version of the ALT that uses the "headers" rather than switches and it works fine. I would suggest that you look at the eHam reviews as I recall reading some feedback that the current model with switches (i.e SLT +) adds a lot of additional stray capacitance which impacts the matching ability of this tuner.

The BLT is a much more versatile tuner as it will match balanced lines as well as end fed wires and likely even an EFHW. Speaking of which if your MTR is 40m/20m why not go with a EFHW tuner (i.e the SOTA tuner) and a EFHW for 40m.
The 40m EFHW should also tune (in theory) as an End-Fed full wave on 20m.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
>
> Has anyone had experience using the QRP KITS SLT+ with random lengths of wire in the field (preferably with a sprint family transceiver)? I know KD1JV is the designer but wonder what the occasional field operator thinks of it? I am thinking of getting one to use with my MTR in VT on vacation this July.
>
> 73,
>
> Dave K1THP
>

9356. FS ATS-3A unbuilt

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 17:29:26 UTC
From: n0lx
Topic: 9356 Message: 9356

Unbuilt ATS-3A in original packaging. $140

I'd rather see it go to someone who has the time to build it rather than it sitting on a shelf. Paypal or M.O. would be fine.

Jake N0LX

n0lx@...

9357. Re: QRP KITS SLT+

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 17:39:33 UTC
From: Alan Shapiro
Topic: 9341 Message: 9357

NM5S here. I have the SLT+ and confirm that it is expressly for and works for very close to 1/2 wave end fed only. I find it more difficult to use than my home made variable cap version that many on this list use.

9358. Re: [AT_Sprint] FS ATS-3A unbuilt

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-29 18:08:18 UTC
From: Lee Johnson
Topic: 9356 Message: 9358

I would like the kit if it is still available.

Thanks,
Lee
N0VI

--- On Tue, 5/29/12, n0lx <n0lx@...> wrote:

From: n0lx <n0lx@...>
Subject: [AT_Sprint] FS ATS-3A unbuilt
To: AT_Sprint@yahoogroups.com
Date: Tuesday, May 29, 2012, 12:29 PM

Unbuilt ATS-3A in original packaging. $140

I'd rather see it go to someone who has the time to build it rather than it sitting on a shelf. Paypal or M.O. would be fine.

Jake N0LX

n0lx@...

9359. Re: FS ATS-3A unbuilt

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-30 03:28:04 UTC
From: n0lx
Topic: 9356 Message: 9359

The ATS-3A is sold to Lee. Thanks!

--- In AT_Sprint@yahoogroups.com, Lee Johnson <lee47@...> wrote:
>
> I would like the kit if it is still available.
>
> Thanks,
> Lee
> N0VI

9360. Re: QRP KITS SLT+

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-30 15:25:47 UTC
From: k1thp
Topic: 9341 Message: 9360

Tom,
Thanks for your input. No reason for random wires, just that for some locations they are all you can easily put up. Just want to keep my options open. I used to use an L-Tuner with a length of miniductor in series with the line and a 140 mFd variable capacitor at the output end of the miniductor to ground. The coil was taped with a flying lead and clip and it would match almost anything. The circuit was the same as the SLT+ only with more L flexibility. It also was a lot heavier and bulky in size. Used to use it with an ARC-5 receiver and 6V6 transmitter for portable operation. Now that was heavy QRP.
73, Dave
--- In AT_Sprint@yahoogroups.com, "Tom" <tmoll150@...> wrote:
>
> Dave,
> The SLT+ is nominally designed to be an EFHW wire tuner. I'm not sure how broadband it is for "random length" wires as you asked about. Why use a random length? The tuner works quite well with half wave wires, which will also work on the harmonically related bands. I use one with my MTR. Good luck and enjoy your vacation hamming in VT!
> 73, Tom
>
> --- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@> wrote:
> >
> > Has anyone had experience using the QRP KITS SLT+ with random lengths of wire in the field (preferably with a sprint family transceiver)? I know KD1JV is the designer but wonder what the occasional field operator thinks of it? I am thinking of getting one to use with my MTR in VT on vacation this July.
> >
> > 73,
> >
> > Dave K1THP
> >
>

9361. Re: [AT_Sprint] What is the differences between the ats4 and the later a and b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-30 20:11:46 UTC
From: Steven Weber
Topic: 9345 Message: 9361

>Wasn't there a difference in the display, as well? I think the "B" had more of a dot-type display, but I could be wrong.

The "A" version used a different display - a three line ascii. The -4 and -4B both used the graphics display.

BTW, I cut my warm up hike short, as it was too blankety hot and humid in southern Virginia! I am back home now and trying to read all the mail...

Steve KD1JV

9362. Re: FS ATS-3A unbuilt

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-30 23:47:05 UTC
From: wa2ohf
Topic: 9356 Message: 9362

I have the new MTR number 001 I built it and sent it to Steve to Align and tune This cost extra 30 bucks but its now working like it should Its second contact was 4014 miles on 20M its in a altoids tin Picture available price 130 Plus 7.95 shipping
Arthur NS7E 952-758-2421

--- In AT_Sprint@yahoogroups.com, "n0lx" <n0lx@...> wrote:
>
> Unbuilt ATS-3A in original packaging. $140
>
> I'd rather see it go to someone who has the time to build it rather than it sitting on a shelf. Paypal or M.O. would be fine.
>
> Jake N0LX
>
> n0lx@...
>

9363. MTR for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-31 00:46:36 UTC
From: wa2ohf
Topic: 9363 Message: 9363

ITS Sold pending funds
Arthur NS7E

9364. ATS II and Paddlette BP-K1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-31 14:25:43 UTC
From: ad7an
Topic: 9364 Message: 9364

I tried to use a Paddlette BP-K1 with my ATS II, but I think the rig had trouble identifying it as a paddle. It only sends dah dits with either lever. I noticed that the base wiring contains small capacitors and suspect them to be the problem. Anyone else have an idea about this before I just clip out the capacitors?

9365. Re: [AT_Sprint] ATS II and Paddlette BP-K1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-31 15:33:17 UTC
From: Steven Carr
Topic: 9364 Message: 9365

if you're sure they are capacitors then they are probably there for debounce purposes, but shouldn't be of any benefit for most rigs and were it me I would clip them. they may be MOVs or similar for transient suppression (i.e. ESD) purposes, in which case I would keep them as long as they didn't ohm out as shorted.

verify the wiring with an ohm meter...small capacitors from the dit and dah keys to ground shouldn't affect keying at slower speeds. also ohm out with a lever pressed to make sure the adjustments (if any) aren't so tight that closing one lever pushes the center post into the other lever.

On 05/31/2012 10:25 AM, ad7an wrote:
>
> I tried to use a Paddlette BP-K1 with my ATS II, but I think the rig
> had trouble identifying it as a paddle. It only sends dah dits with
> either lever. I noticed that the base wiring contains small capacitors
> and suspect them to be the problem. Anyone else have an idea about
> this before I just clip out the capacitors?
>
>

9366. Re: QRP KITS SLT+

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-31 16:42:32 UTC
From: paradoxpete.pdm@gmail.com
Topic: 9341 Message: 9366

--- In AT_Sprint@yahoogroups.com, "Tom" <tmoll150@...> wrote:
>
> Dave,
> The SLT+ is nominally designed to be an EFHW wire tuner. I'm not sure how broadband it is for "random length" wires as you asked about. Why use a random length? The tuner works quite well with half wave wires, which will also work on the harmonically related bands. I use one with my MTR. Good luck and enjoy your vacation hamming in VT!
> 73, Tom

>

I exclusively use an L tuner (by KD1JV) for all my portable work.

It works bes with half wave length wires, but my 40m antenna also tunes on 30, 20 and 15 metres! I add about 3 feet for 17 metres.

Here's my MTR and Altoids L tuner on it's first field outing, including a MTR - MTR contact!

http://youtu.be/Ffje8VVcUKk

Pete
G4ISJ
MTR #055
and ATS4b

9367. Re: [AT_Sprint] ATS II and Paddlette BP-K1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-31 17:00:02 UTC
From: Milton A Riutort
Topic: 9364 Message: 9367

Adam,

My old paddelette BK-P1 get dirty very easy and need attention on this. But this just make one of the circuit (dih or dah) fail, not do what you mention about sending the same (dah) which each side of the paddle. Mine has the cables attached direct to the paddle screws, nothing in between, nothing that I have seen before. Never remove the bottom magnetic pad of it, so don't know what is inside.

I only can suggest to start dividing the problem into parts to find what's wrong. Check again the solder points on main processor (U10) pins 9 and 10 and keep going all the way to the paddle connector.

Good luck,

Milton A Riutort

9368. RE: [AT_Sprint] ATS II and Paddlette BP-K1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-31 17:10:13 UTC
From: Dale Putnam
Topic: 9364 Message: 9368

I'm building a II now, but my memory seems that this is a situation where the radio doesn't see the paddle, during power up.It then assumes everything to be a straight key. Mine does that every once in a while when I power it up and have the paddle shorted.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: milton.riutort@...
Date: Thu, 31 May 2012 13:00:02 -0400
Subject: Re: [AT_Sprint] ATS II and Paddlette BP-K1

Adam,

My old paddelette BK-P1 get dirty very easy and need attention on this. But this just make one of the circuit (dih or dah) fail, not do what you mention about sending the same (dah) which each side of the paddle. Mine has the cables attached direct to the paddle screws, nothing in between, nothing that I have seen before. Never remove the bottom magnetic pad of it, so don't know what is inside.

I only can suggest to start dividing the problem into parts to find what's wrong. Check again the solder points on main processor (U10) pins 9 and 10 and keep going all the way to the paddle connector.

Good luck,

Milton A Riutort

9369. MTR 57 mounted in Apple mouse enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-05-31 17:47:04 UTC
From: philip_graitcer
Topic: 9369 Message: 9369

I've been saving this clear plastic case that an Apple mouse came in. There is room in the bottom for a battery, although the setup is larger than an Altoids tin,

After final calibration and testing I was able to get almost 5 watts on 40 and 4.3 watts on 20 at 12volts input.

Worked 6 countries with it during WPX. Now it's time to try in the field!

Although I meant to build it using solder paste, I left it in my home refrigerator when I went to my beach retreat to build it! Soldered by hand, one piece at a time.

Phil, W3HZZ

Photos posted in W3HZZ album

9370. Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-01 01:20:48 UTC
From: David
Topic: 9175 Message: 9370

Hi Bob,
sure no problem to change the band edge of 80m by why don't you have a crack at it yourself? The two lines you want to change are on line 604 & 605 of the source 9see below)

```
int80: mov #0000h,&fbcd_l ;low bits of start up freq in binary
mov #0356h,&fbcd_h ;high bits of start up freq
int80a: mov #03c00h,r14
mov #0003h,r10
mov #0370h,&fh_limit_h ;high tuning limit <---- This one
mov #0000h,&fh_limit_l <---- & this one
mov #0350h,&fl_limit_h ;low tuning limit
mov #0000h,&fl_limit_l
mov #03c00h,r14
mov #0002h,r10
```

The band edges are 32 bit values that are stored in two 16 bit words called fh_limit_h for the high limit high order part and fh_limit_l for the lower order part (the lower edge uses fl_limit_h & fl_limit_l). Best of all the numbers are BCD so its dead easy to read, 0370h is 3.570 MHz and 0000h is lower part down to the Hz. So if you wanted to set the upper limit to 3895.2 kHz it would look like this

```
mov #0389h,&fh_limit_h ;high tuning limit <---- This one
mov #05200h,&fh_limit_l <---- & this one
```

Note that I put a extra leading zero in the second line, I'm not sure if that is really required but it helps the assembler recognise that it is a number not a variable name.

Once you make the change just save, rebuild and download as before.

God luck sorting out the deaf rx, must be a wrong componet value or something like that.

All the best, Dave

--- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@...> wrote:
>
> Dave,
> Been off for the Memorial Day holiday here in the US.....I did
> find that 80M upper band edge is set to 3.700. Hard stop tuning with
> a single beep.
> I did reset the default start freq to my preferences....no need to
> change that. I had not read far enough in the manual to see that
> one.
> The only real issues are with the band edges being reset. If you
> come out with new code that would be nice. I can live with the
> tuning rate being
> slower.....80M is still deaf....Still looking into that. So far all
> component values look ok, at least for the leaded caps. I have to

> check any SMT caps in the front end...
> may be wrong.....TNX!....>Bob....EDJ.....
>
> On Fri, May 25, 2012 at 9:54 AM, Bob Confrey <bobc784@...> wrote:
> > Dave,
> > I did give the MTR a listen last night and tune up. It switches
> > bands nicely now, thanks! However, I'm not pleased with the 80M
> > performance. Normally I can peak the input caps
> > on band noise. No so on the MTR (on 80M, 40M is ok). I will go
> > back and double check the input components. Because of how I had to
> > move things around for 80M, it is possible I got a wrong value in the
> > front end. I'm also going to compare the values for 80M from the
> > ATS-4B to the MTR....I'd think they'd be the same. My 4B works pretty
> > well on 80 but the MTR seems pretty deaf. I tried a sig gen on 80 for
> > tune up since I could not hear any signals and the peaking on the
> > front end caps was weak and broad. Not like 40M.
> >
> > I did not realize you could set start freq in the preferences....Need
> > to read the manual...thanks! If thats the case I can just change
> > that, no need to spin the code for me.....
> > I'll let you know what else I find.....TNX!...Bob....EDJ....
> >
> > On Thu, May 24, 2012 at 7:02 PM, David <djblunn@...> wrote:
> >> That's good news Bob!
> >>
> >> I didn't change the tuning rates so let me know if you want them put back to the old
rate. I'm not sure if the rate change was part of the band-edge fix or an unrelated change.
You can set intial freqs with the preferences option but it should not be any problem to
set them in the code for you, although I would probably email you direct with that change
as it could lead to config management problems if I post it in the files section.
> >>
> >> All the best, Dave VK2DDJ
> >>
> >> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
> >>>
> >>> Ok, it appears that I've been successful in getting Dave's latest code
> >>> into my MTR. After several attempts that did not appear successful, I
> >>> finally used Dave's project files (which set the Debugger to FET per
> >>> Jerry's advice) it did work. After pulling the MTR off the Launchpad
> >>> and powering up, I was able to get both 40 and 80M band change with
> >>> the switches.
> >>> I'll try this on an antenna tonight and see if it really
> >>> receives.....Thanks for all the help guys.
> >>>
> >>> BTW Dave, did you change any of the tuning rate values? You
> >>> mentioned that it appears Steve dropped the rate from 200 to 100. I
> >>> was happy with 200 since I move to slow parts of the
> >>> band....While I'm at it maybe I want to reset my default start freq to
> >>> my favorite areas? That should not be too hard?.....I'll get back
> >>> with results of my tonight tests.....Bob....EDJ....

> >>>
> >>>
> >>> On Thu, May 24, 2012 at 9:58 AM, Bob Confrey <bobc784@> wrote:
> >>> > Good info....I'll check that before I try Dave's latest code at lunch
> >>> > time here.....TNX!...Bob....EDJ...
> >>> >
> >>> > On Thu, May 24, 2012 at 12:16 AM, jgaffke <jgaffke@> wrote:
> >>> >> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
> >>> >>> Appeared to all work...Debug window came up
> >>> >>> and log said download complete.
> >>> >>
> >>> >> Not good enough. You get a "download complete" message
> >>> >> even if Launchpad is not connected through the USB port,
> >>> >> if you have IAR in simulator mode.
> >>> >> Verify that Program/Options/Debugger is set to
> >>> >> "FET Debugger" and not "Simulator".
> >>> >> Maybe someday I'll find time to read the IAR docs,
> >>> >> but for now this seems like pretty stupid behavior.
> >>> >> Jerry KE7ER
> >>> >>
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> >>> >>
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9371. RE: [AT_Sprint] ATS II and Paddlette BP-K1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-01 01:44:47 UTC
From: Milton A Riutort
Topic: 9364 Message: 9371

Dale:

I am very sorry for my confusion on this. Apologize me.

I am sure that the newest version can be change to straight key mode while turning on and holding close one of the key paddle. May be also on this ATS II version, but something is causing a short on both paddle because the dih dah transmit sequence.

Hard to help with a correct solution, but just try to close the circuit with another thing different than the paddelette to see if it is causing the problem.

Steve design not just pull to ground each circuit, take a look into MTR schematic diagram and you can see what I mean.

Hope this help better,
Milton
NP4KT

9372. Re: [AT_Sprint] What is the differences between the ats4 and the later a and b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-01 03:23:52 UTC
From: harry latterman
Topic: 9345 Message: 9372

Thanks Steve for the insight. I am not one of those hot CW people, but I am getting into it more and more. I don't have $$$ anymore being a displaced EE with almost 40 yrs experience. (Turn 55 and no on wants you) so I am now pushing drugs at Walmart making about 1/4 th what I use to. So my radio hobby started out with a few older radios that were seeds for trading and i have had a ball doing it. During the trades, I have had too many to list, I had in my hot little hands a K1-4, HB-1A and recently a KX-1. Comparing them to my ATS-4, that I traded the KX-1 for, I would say at worst it is as good as the K1 and KX1, but really not. It appears better. And as far as the HB-1A their is no comparison, far better. I still have not had time to compare it to my K2. Coming soon....But for now I am off and running learning the radio and getting PSK31 and RTTY up and running. I have a AXIM 30 on the way and that should do a fine job with PocketDigi. I have a
Acer-One Netbook that has the PC version in, but have had no time to try. And I own a NUE-PSK modem. So this should be a fun summer.

I am very impressed with your designs. If you ever go serious I think Elecraft might be a little nervous as far as compition to the KX-1 and K1 family. KX-3 Nope. Way different animal.

Thank you for your great designs and if you have any suggestion for me I would love to hear them.

73
Harry K7ZOV

9373. RE: [AT_Sprint] ATS II and Paddlette BP-K1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-01 02:55:49 UTC
From: Timothy Gordish
Topic: 9364 Message: 9373

Well everything checked good with a meter, and my bencher key works fine. I replaced the plug and it works now. Baffled but happy.

Sent from my iPod

9375. Re: [AT_Sprint] Re: MTR - a few more little bugs...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-01 13:58:27 UTC
From: Bob Confrey
Topic: 9175 Message: 9375

Thanks Dave!.....I'll give this a try. A simple mod to the existing
code should be easy.....My problem would have been finding it in
Steves code. Thanks for pointing out the BCD....
Later.....Bob....EDJ....

On Thu, May 31, 2012 at 9:20 PM, David <djblunn@...> wrote:
> Hi Bob,
> sure no problem to change the band edge of 80m by why don't you have a crack at it
yourself? The two lines you want to change are on line 604 & 605 of the source 9see below)
>
```
> int80:    mov   #0000h,&fbcd_l  ;low bits of start up freq in binary
>          mov   #0356h,&fbcd_h   ;high bits of start up freq
> int80a:   mov   #03c00h,r14
>          mov   #0003h,r10
>          mov   #0370h,&fh_limit_h  ;high tuning limit   <---- This one
>          mov   #0000h,&fh_limit_l                      <---- & this one
>          mov   #0350h,&fl_limit_h  ;low tuning limit
>          mov   #0000h,&fl_limit_l
>          mov   #03c00h,r14
>          mov   #0002h,r10
```
>
> The band edges are 32 bit values that are stored in two 16 bit words called fh_limit_h
for the high limit high order part and fh_limit_l for the lower order part (the lower edge
uses fl_limit_h & fl_limit_l). Best of all the numbers are BCD so its dead easy to read,
0370h is 3.570 MHz and 0000h is lower part down to the Hz. So if you wanted to set the
upper limit to 3895.2 kHz it would look like this
>
```
>          mov   #0389h,&fh_limit_h  ;high tuning limit   <---- This one
>          mov  #05200h,&fh_limit_l                      <---- & this one
```
>
> Note that I put a extra leading zero in the second line, I'm not sure if that is really
required but it helps the assembler recognise that it is a number not a variable name.
>
> Once you make the change just save, rebuild and download as before.
>
> God luck sorting out the deaf rx, must be a wrong componet value or something like that.
>
> All the best, Dave
>
> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@...> wrote:
>>
>> Dave,
>>   Been off for the Memorial Day holiday here in the US.....I did
>> find that 80M upper band edge is set to 3.700. Hard stop tuning with
>> a single beep.

>> I did reset the default start freq to my preferences....no need to
>> change that. I had not read far enough in the manual to see that
>> one.
>> The only real issues are with the band edges being reset. If you
>> come out with new code that would be nice. I can live with the
>> tuning rate being
>> slower.....80M is still deaf....Still looking into that. So far all
>> component values look ok, at least for the leaded caps. I have to
>> check any SMT caps in the front end...
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>> > performance. Normally I can peak the input caps
>> > on band noise. No so on the MTR (on 80M, 40M is ok). I will go
>> > back and double check the input components. Because of how I had to
>> > move things around for 80M, it is possible I got a wrong value in the
>> > front end. I'm also going to compare the values for 80M from the
>> > ATS-4B to the MTR....I'd think they'd be the same. My 4B works pretty
>> > well on 80 but the MTR seems pretty deaf. I tried a sig gen on 80 for
>> > tune up since I could not hear any signals and the peaking on the
>> > front end caps was weak and broad. Not like 40M.
>> >
>> > I did not realize you could set start freq in the preferences....Need
>> > to read the manual...thanks! If thats the case I can just change
>> > that, no need to spin the code for me.....
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>> > On Thu, May 24, 2012 at 7:02 PM, David <djblunn@...> wrote:
>> >> That's good news Bob!
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>> >> I didn't change the tuning rates so let me know if you want them put back to the old
rate. I'm not sure if the rate change was part of the band-edge fix or an unrelated change.
You can set intial freqs with the preferences option but it should not be any problem to
set them in the code for you, although I would probably email you direct with that change
as it could lead to config management problems if I post it in the files section.
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>> >> All the best, Dave VK2DDJ
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>> >> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
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>> >>> Ok, it appears that I've been successful in getting Dave's latest code
>> >>> into my MTR. After several attempts that did not appear successful, I
>> >>> finally used Dave's project files (which set the Debugger to FET per
>> >>> Jerry's advice) it did work. After pulling the MTR off the Launchpad
>> >>> and powering up, I was able to get both 40 and 80M band change with
>> >>> the switches.
>> >>> I'll try this on an antenna tonight and see if it really

>> >>> receives.....Thanks for all the help guys.
>> >>>
>> >>> BTW Dave, did you change any of the tuning rate values? You
>> >>> mentioned that it appears Steve dropped the rate from 200 to 100. I
>> >>> was happy with 200 since I move to slow parts of the
>> >>> band....While I'm at it maybe I want to reset my default start freq to
>> >>> my favorite areas? That should not be too hard?.....I'll get back
>> >>> with results of my tonight tests.....Bob....EDJ....
>> >>>
>> >>>
>> >>> On Thu, May 24, 2012 at 9:58 AM, Bob Confrey <bobc784@> wrote:
>> >>> > Good info....I'll check that before I try Dave's latest code at lunch
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>> >>> >
>> >>> > On Thu, May 24, 2012 at 12:16 AM, jgaffke <jgaffke@> wrote:
>> >>> >> --- In AT_Sprint@yahoogroups.com, Bob Confrey <bobc784@> wrote:
>> >>> >>> Appeared to all work...Debug window came up
>> >>> >>> and log said download complete.
>> >>> >>
>> >>> >> Not good enough. You get a "download complete" message
>> >>> >> even if Launchpad is not connected through the USB port,
>> >>> >> if you have IAR in simulator mode.
>> >>> >> Verify that Program/Options/Debugger is set to
>> >>> >> "FET Debugger" and not "Simulator".
>> >>> >> Maybe someday I'll find time to read the IAR docs,
>> >>> >> but for now this seems like pretty stupid behavior.
>> >>> >> Jerry KE7ER
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9376. Re: [AT_Sprint] MTR 57 mounted in Apple mouse enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-01 14:04:17 UTC
From: Eric Castro (VA3AMX)
Topic: 9369 Message: 9376

Philip

Great idea! Very nice!

72/73
Eric - VA3AMX

9377. Re: The clear cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-01 17:03:14 UTC
From: Philip L. Graitcer
Topic: 9374 Message: 9377

If you are talking about mine (MTR #57), my apple mouse was packaged in it.

There is also a very neat clear case that the iTouch comes in. It is about the size of an iPhone and perhaps 2.5 cm thick.

Don't know where these could be purchased without the electronic gear, however.

Phil, W3HZZ

9378. MTN enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-01 17:33:36 UTC
From: Skyridr
Topic: 9378 Message: 9378

I have posted some photos of the enclosure that was constructed for the MTR. I wanted something more robust than the standard altoids tin.

Clam shell construction was used. The top was fabricated from aluminum sheeting sold for door kick panels. The bottom piece is aluminum extrusion that is sold for electronic boxes, maybe these now are available from Digikey or Mouser. The extrusion box is about 4.25 x 2.5 x 1.5 inches. Only half, or one part is used.

The template provided in the assembly manual didn't have the correct dimensions when printed on my computer. I made a new template by using a heavy clear piece of plastic. Pins or small brads were first used to mark and hold the plastic over the 4 corner pcb standoffs. Then, a location of the various openings for switches were marked. Holes were cut and the template was checked to determine that it fit the pcb.

The template was then taped to the aluminum top of the cover, and holes were drilled or punched. I used a hand punch for most of the holes. Labels were printed and taped in place, and modified for satisfactory fit.

Labels were printed on water slip decals. Assembly was painted, labels were applied, and final coats of clear paint were applied.

I am pleased with the results. Questions? Let me know.

Wendell, Bozeman, MT

N7WM

9379. Re: [AT_Sprint] Re: FS ATS-3A unbuilt

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-01 22:48:38 UTC
From: john dean
Topic: 9356 Message: 9379

I would love to have and use this radio but I am not a builder. Could I pay you and have you send it direct to a good builder?
john kb7hnf

--- On Wed, 5/30/12, wa2ohf <arthurripple@...> wrote:

From: wa2ohf <arthurripple@...>
Subject: [AT_Sprint] Re: FS ATS-3A unbuilt
To: AT_Sprint@yahoogroups.com
Date: Wednesday, May 30, 2012, 7:47 PM

I have the new MTR number 001 I built it and sent it to Steve to Align and tune This cost extra 30 bucks but its now working like it should Its second contact was 4014 miles on 20M its in a altoids tin Picture available price 130 Plus 7.95 shipping

Arthur NS7E 952-758-2421

--- In AT_Sprint@yahoogroups.com, "n0lx" <n0lx@...> wrote:

>

> Unbuilt ATS-3A in original packaging. $140

>

> I'd rather see it go to someone who has the time to build it rather than it sitting on a shelf. Paypal or M.O. would be fine.

>

> Jake N0LX

>

> n0lx@...

>

9380. Re: MTN enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-02 01:23:02 UTC
From: n1rx
Topic: 9378 Message: 9380

Nice work! But, menu spelled with an "e" (menue)?

--- In AT_Sprint@yahoogroups.com, "Skyridr" <november7wm@...> wrote:
>
>
> I have posted some photos of the enclosure that was constructed for the
> MTR. I wanted something more robust than the standard altoids tin.
>
> Clam shell construction was used. The top was fabricated from aluminum
> sheeting sold for door kick panels. The bottom piece is aluminum
> extrusion that is sold for electronic boxes, maybe these now are
> available from Digikey or Mouser. The extrusion box is about 4.25 x 2.5
> x 1.5 inches. Only half, or one part is used.
>
> The template provided in the assembly manual didn't have the correct
> dimensions when printed on my computer. I made a new template by using
> a heavy clear piece of plastic. Pins or small brads were first used to
> mark and hold the plastic over the 4 corner pcb standoffs. Then, a
> location of the various openings for switches were marked. Holes were
> cut and the template was checked to determine that it fit the pcb.
>
> The template was then taped to the aluminum top of the cover, and holes
> were drilled or punched. I used a hand punch for most of the holes.
> Labels were printed and taped in place, and modified for satisfactory
> fit.
>
> Labels were printed on water slip decals. Assembly was painted, labels
> were applied, and final coats of clear paint were applied.
>
> I am pleased with the results. Questions? Let me know.
>
> Wendell, Bozeman, MT
>
> N7WM
>

9381. Re: MTN enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-02 02:46:19 UTC
From: Jonathan
Topic: 9378 Message: 9381

The extra dit on menu is totally cool, if you ask me.
This enclosure is quite nice.
Jonathan KC7FYS

9382. MTR Enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-03 03:06:59 UTC
From: Mike
Topic: 9382 Message: 9382

Case for sn 003 is finally done, picture uploaded. Photo is a scene in California, from the US Bureau of Land Management website.

Great kit, Steve!

Mike Schettler WA6MER

9383. Re: MTR s/n 131 alive! :-)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-03 10:02:37 UTC
From: Colin
Topic: 9227 Message: 9383

MTR 131 is finally completed and trail ready.

I worked a handful of stations last night during the IARU 1 Field Day contest - I was hoping for some nice QSO's, but in the end 20 metres was full of contest stations, so if you can't beat 'em, join 'em!

The MTR receiver seemed to cope very well with all the strong signals on the band.

I'm very impressed with my first taste of an ATS rig!

I'm totally blown away by the MTR, it's amazing!

Photos of MTR in 'M0CGH MTR' folder.

72
Colin
M0CGH

9384. Sleepless night/ Smoked MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-03 14:50:18 UTC
From: jhg40earthlinknet
Topic: 9384 Message: 9384

I spent a sleepless night last night thinking I was the first to smoke their new MTR.

No shorts found, powered it up, nice hiss in the headphones, no display. Then came a horrendous pulsating sound in the headphones. Powered the rig down. R26 appeared to have blown. A round hot spot appeared to be on the MCU. Rechecked everything, powered up again (probably not smart) and same results. Major bummer.

This morning I again look for problems and then remember something stupid I had done. When I installed S7, it was not flush with the PCB. I tried to remove it to reinstall it and pulled on of the solder lugs out. What did I do? Of course, I stuffed it back in and installed the switch.

Now I decided to try the switches. S7 was stuck but I unstuck it and now MTR comes to life with band annunciated, band displayed, voltages good, Dits and Dahs audible in head phones. WHAT A RELIEF.

Now to order a new R26 and slide switch. Maybe Field Day will happen after all!

John
WB6HVH

9385. ATS4 Firmware Flash

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-04 00:22:25 UTC
From: bob_nelson_k2qpn
Topic: 9385 Message: 9385

I am trying to flash the firmware in a ATS4 (original). No luck. I made a cable per the documentation. Ohmed it out several times - seems OK. I attach the cable and power on the ATS4. If I use workbench and open ATS4ND.prj and then AST4ND.s43, the debug icon is grayed out. If I open the ats4edit.eww file, I can start debug. Debug then complies the code but fails "Can't find device".

Any ideas?

Bob K2QPN

9386. Re: MTR User Prefs bug

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-04 13:19:41 UTC
From: katsumi.seto
Topic: 9269 Message: 9386

Hi Randy, My problem was just resolved by reading your message. Thanks. de ja7qil/Katsu

--- In AT_Sprint@yahoogroups.com, "wrmoore47" <wrmoore47@...> wrote:
>
> Maybe this has been reported before, but I believe the settings for User Preferences are reversed.
>
> - Morse on/off is Tune Down
> - Save current state is Tune Up
>
> The manual, p. 21, has these reversed.
>
> 73,
> Randy, KS4L
>

9387. Re: ATS4 Firmware Flash

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-04 16:04:06 UTC
From: bob_nelson_k2qpn
Topic: 9385 Message: 9387

Something else I noticed. When I power on the ATS4 without the flash cable, I can hear receiver noise. As soon as I connect the flash cabel to the ATS4 and the PC, the receiver noise stops. The noise resumes if I unplug the cable.

73, Bob K2QPN

--- In AT_Sprint@yahoogroups.com, "bob_nelson_k2qpn" <K2QPN@...> wrote:
>
> I am trying to flash the firmware in a ATS4 (original). No luck. I made a cable per the documentation. Ohmed it out several times - seems OK. I attach the cable and power on the ATS4. If I use workbench and open ATS4ND.prj and then AST4ND.s43, the debug icon is grayed out. If I open the ats4edit.eww file, I can start debug. Debug then complies the code but fails "Can't find device".
>
> Any ideas?
>
> Bob K2QPN
>

9388. Re: ATS4 Firmware Flash

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-04 16:49:36 UTC
From: mpupeza
Topic: 9385 Message: 9388

Bob:
Look back through the archives for my posts of a few weeks ago.
My resultant success was when I measured the voltages coming from the parallel port in the idle condition. I then put a resistor in the one lead that was 5V and removed (strapped out) the ones that were at 3.3V. My cable looked like the opposite of the drawing.
After that, the software jumped into action, gave me a progress bar and loaded fine.
Ignore the change in noise levels when the cable is connected. Whatever it is doing is not relevant to the flash process.
Good luck.
Mike VE3EQP .....>

--- In AT_Sprint@...m, "bob_nelson_k2qpn" <K2QPN@...> wrote:
>
>
> Something else I noticed. When I power on the ATS4 without the flash cable, I can hear receiver noise. As soon as I connect the flash cabel to the ATS4 and the PC, the receiver noise stops. The noise resumes if I unplug the cable.
>
> 73, Bob K2QPN
>
> --- In AT_Sprint@yahoogroups.com, "bob_nelson_k2qpn" <K2QPN@> wrote:
> >
> > I am trying to flash the firmware in a ATS4 (original). No luck. I made a cable per the documentation. Ohmed it out several times - seems OK. I attach the cable and power on the ATS4. If I use workbench and open ATS4ND.prj and then AST4ND.s43, the debug icon is grayed out. If I open the ats4edit.eww file, I can start debug. Debug then complies the code but fails "Can't find device".
> >
> > Any ideas?
> >
> > Bob K2QPN
> >
>

9389. Re: [AT_Sprint] ATS4 Firmware Flash

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 01:00:58 UTC
From: Johnny Matlock
Topic: 9385 Message: 9389

Ge Bob
I had a similar problem with the cable I built. Mine problem turned out to be that the picture I was looking at to build the cable from was a mirror image of the one I had built.
Bottom line is, if I says it can;t find the device, it most likely is a cable issue.
Take a look and yours and see if this helps, it worked for me!
73
Johnny AC0BQ

On Sun, Jun 3, 2012 at 7:22 PM, bob_nelson_k2qpn <K2QPN@...> wrote:

> **
>
>
> I am trying to flash the firmware in a ATS4 (original). No luck. I made a
> cable per the documentation. Ohmed it out several times - seems OK. I
> attach the cable and power on the ATS4. If I use workbench and open
> ATS4ND.prj and then AST4ND.s43, the debug icon is grayed out. If I open the
> ats4edit.eww file, I can start debug. Debug then complies the code but
> fails "Can't find device".
>
> Any ideas?
>
> Bob K2QPN
>
>
>

9390. Slow speed net on 14.0625

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 03:31:36 UTC
From: Dale Putnam
Topic: 9390 Message: 9390

Ok.. I know.. a simple info post to multi reflectors. So.. if I get this right.. DON'T just REPLY ALL.. to this.. just to me is really fine tho. Now.. what's this all about? Tomorrow, at 2000z or 2pm MT on 14.0625, I'll call a slow speed, (that means I'll match your speed, when you check in with your call)and we will check everyone in, and during the check in, I'll swap name, qth, wx and power, maybe antenna info with you. IF we have time, we'll gather antenna info so we all can have that too. I don't really have a "gotta be done by" time... so we'll have a good time. It may take a while.. but that's ok. Just makes for more practice time.And that's what this is for.. to practice our cw. So, as they say... "Y'all come, y'ear?" I'll call: "CQ CQ RMR (Rocky Mountain Regional) de WC7S (that'd be me) QNI (check in) K K... (that means your turn, tx your call. IF I can hear two or more, I'll list them all.. but get the first one for check in after I give all the calls. Now.. I'll be looking for you!... yep... you. ;-) --... ..---Dale - WC7S

9391. Altoid Box Artwork

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 02:31:04 UTC
From: k1thp
Topic: 9391 Message: 9391

I have seen many great looking Sprint and MTR rigs in the photos section. Many have digital pictures of local high spots, etc. What is the technique folks are using?. Are they printed onto a glossy laminate material or are they printed onto an adhesive label? Whatever the technique, where do you get the material from? My MTR works great but looks a bit shabby and can use a makeover. I finished it with several coats of Heath kit green then applied rub on dry lettering and some clear Krylon. It is definitely old school and looks it. How do I dress it up?
73, Dave K1THP

9392. Re: [AT_Sprint] Altoid Box Artwork

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 14:29:42 UTC
From: Tom Moll
Topic: 9391 Message: 9392

Dave,
I used the following process.
Stole a nice image of my local mountain off the InterNet.
Overlaid the text I wanted on the image using Microsoft Publisher (or similar).
Sized the printout to fit the Altoids tin and printed it out on a color laser printer. (Print several in case you mess one up)
Cut the corners to conform to the shape of the tin. Make sure you leave enough room for the mounting screws to go through the image to hold it on the tin.
Laminate the printed image using a 3M self laminating product #LS854G which is full page size and glossy. You can first cut pieces out of the page to laminate smaller objects, or there are also smaller sizes of this same product available (4" X 6", 5" X 7", wallet size - apparently used for photographs a lot). One page costs less than $2 and will do many Altoids sized printouts. I found this laminating product at the local printing shop. You may want to also use this to laminate other operating aids (MTR menu, tuner settings, etc.)
Then I printed out Steve's artwork to locate the holes properly, and overlaid that.
The push button holes I punched with a single hole punch (paper punch) which works because they are close to the edge and give a perfect hole.
The rectangular holes I carved out (very slowly and carefully) with a new, sharp exacto knife. It works best to cut through one layer of this "sandwich" at a time in order to prevent having to use too much pressure, which can lead to slips and ruining the art work (or worse).
I used a small drill bit, hand held, to drill the mounting holes at the corners.
Clean up any rough edges with the exacto knife and mount the finished art work to the tin.
I didn't even bother using any other adhesive to hold it in place in case I wanted to change it later. The four mounting screws hold it flat and in place nicely with no buckling.

A Dremel tool may also work well for making the various holes, but you would need to keep the tool speed low enough so as not to melt the plastic laminate.

It sounds a lot more difficult in print than it is in reality.
I'm sure there are many other approaches to accomplish this as well. I was quite pleased with the result, and it's not permanent. You can see mine in the photos section.
Good luck - show us your finished product when you are done!
73, Tom N0BS
Smith Mountain Lake, VA

On Tue, Jun 5, 2012 at 2:31 AM, k1thp <karpiejd@...> wrote:

> **
>
>
> I have seen many great looking Sprint and MTR rigs in the photos section.
> Many have digital pictures of local high spots, etc. What is the technique
> folks are using?. Are they printed onto a glossy laminate material or are
> they printed onto an adhesive label? Whatever the technique, where do you
> get the material from? My MTR works great but looks a bit shabby and can
> use a makeover. I finished it with several coats of Heath kit green then
> applied rub on dry lettering and some clear Krylon. It is definitely old
> school and looks it. How do I dress it up?
> 73, Dave K1THP
>
>
>

9393. SMDs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 16:48:20 UTC
From: Jonathan
Topic: 9393 Message: 9393

I have three reels of SMDs that I don't need. Anybody who wants to pay postage can have them.
Email me off-list, please.

These three reels of SMD resistors are as follows:

--5000 pcs 1/8watt 4.7k
--5000 pcs 1/8 watt 6.8k
---1000 pcs 1/10watt 1.5k

Jonathan KC7FYS

9394. Re: SMDs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 17:06:04 UTC
From: Jonathan Haynes
Topic: 9393 Message: 9394

TAKEN.
That took all of 42 seconds!
Jonathan KC7FYS

--- In AT_Sprint@yahoogroups.com, Jonathan <kc7fys@...> wrote:
>
> I have three reels of SMDs that I don't need. Anybody who wants to pay postage can have them.
> Email me off-list, please.
>
> These three reels of SMD resistors are as follows:
>
> --5000 pcs 1/8watt 4.7k
> --5000 pcs 1/8 watt 6.8k
> ---1000 pcs 1/10watt 1.5k
>
> Jonathan KC7FYS
>

9395. Re: ATS4 Firmware Flash

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 18:51:20 UTC
From: bob_nelson_k2qpn
Topic: 9385 Message: 9395

I have ohmed out the cable several times and compared against the pictures - it looks OK. I scoped the voltages and found 3 lines a 3.3 volts and 2 at 5v.. I shorted the resistors on the 3.3v lines...no help.

If I follow the directions and open the ATS4ND.prj file and then open the ATS4ND.s43 file, the debug icon is grayed out. I have to load the ats4edit.eww workspace file to get to debug. any ideas?

73, Bob K2QPN

--- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@...> wrote:
>
> Ge Bob
> I had a similar problem with the cable I built. Mine problem turned out to
> be that the picture I was looking at to build the cable from was a mirror
> image of the one I had built.
> Bottom line is, if I says it can;t find the device, it most likely is a
> cable issue.
> Take a look and yours and see if this helps, it worked for me!
> 73
> Johnny AC0BQ
>
> On Sun, Jun 3, 2012 at 7:22 PM, bob_nelson_k2qpn <K2QPN@...> wrote:
>
> > **
> >
> >
> > I am trying to flash the firmware in a ATS4 (original). No luck. I made a
> > cable per the documentation. Ohmed it out several times - seems OK. I
> > attach the cable and power on the ATS4. If I use workbench and open
> > ATS4ND.prj and then AST4ND.s43, the debug icon is grayed out. If I open the
> > ats4edit.eww file, I can start debug. Debug then complies the code but
> > fails "Can't find device".
> >
> > Any ideas?
> >
> > Bob K2QPN
> >
> >
> >
>

9396. WTB used ATS-3

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 18:55:36 UTC
From: ea2bd
Topic: 9396 Message: 9396

Hi,

with the recent move to the new wonder ATS-4 & MTR, I am interested in buying a used ATS-3. I'd like a good condition & fully functional rig with 20m & 40m components.

I have a friend in USA so CONUS transport would be Ok. I can pay by Paypal.

It's a pity I can't manage with surface mount nor have enough time to build it by myself so I prefer a used rig.

I look forward to hear your offers. Take care 73
Ignacio EA2BD ea2bd(at)yahoo.com

9397. RE: Slow speed net on 14.0625

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 21:08:33 UTC
From: Dale Putnam
Topic: 9390 Message: 9397

WELL.. try as hard as I can... sometimes.. life happens... and we all know that there are times... when the phone rings... and you just KNOW, before even sayin "Hello, Honey"... things are not going to work out right.So... that's what happened.. and I apologize. Now.. I am going to call the net right now.. at 2115z.... let's see if that is a better time?/?? for some????See you all in a bit.. maybe?

--... ...--
Dale - WC7S in Wy
From: daleputnam@...
To: qrp-l@...; at_sprint@yahoogroups.com; 4sqrp@...
Subject: Slow speed net on 14.0625
Date: Mon, 4 Jun 2012 21:31:36 -0600

Ok.. I know.. a simple info post to multi reflectors. So.. if I get this right.. DON'T just REPLY ALL.. to this..
just to me is really fine tho.

Now.. what's this all about? Tomorrow, at 2000z or 2pm MT on 14.0625, I'll call a slow speed, (that means I'll match your speed, when you check in with your call)
and we will check everyone in, and during the check in, I'll swap name, qth, wx and power, maybe antenna info with you. IF we have time, we'll gather antenna info so
we all can have that too. I don't really have a "gotta be done by" time... so we'll have a good time. It may take a while.. but that's ok. Just makes for more practice time.
And that's what this is for.. to practice our cw. So, as they say... "Y'all come, y'ear?"
I'll call: "CQ CQ RMR (Rocky Mountain Regional) de WC7S (that'd be me) QNI (check in) K K... (that means your turn, tx your call. IF I can hear two or more, I'll list them all.. but get the first one for check in after I give all the calls.

Now.. I'll be looking for you!... yep... you.

;-)

--... ..---
Dale - WC7S

9398. RMR net report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 21:57:10 UTC
From: Dale Putnam
Topic: 9390 Message: 9398

The RMR net report for 5 June WB1HGA Ron in Ma checked in today, a decent signal, solid copy with QSB, on a Kenwood at 4w. The weather is full of static here, wind is relentless, and the antennas are slapping about.See you all Thursday, without the qsb, we can hope.

--... ...--
Dale - WC7S in Wy

9399. re: [AT_Sprint] RMR net report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 22:06:08 UTC
From: Doug Hendricks
Topic: 9390 Message: 9399

I intended to check in today Dale, but time got away from me. Will try to make it on Thursday. Doug

-------- Original Message --------
> From: "Dale Putnam" <daleputnam@...>
> Sent: Tuesday, June 05, 2012 3:04 PM
> To: qrp-l@..., "AT Sprint" <at_sprint@yahoogroups.com>, "4SQRP" <4sqrp@...>
> Subject: [AT_Sprint] RMR net report
>
> The RMR net report for 5 June WB1HGA Ron in Ma checked in today, a decent signal, solid copy with QSB, on a Kenwood at 4w. The weather is full of static here, wind is relentless, and the antennas are slapping about.See you all Thursday, without the qsb, we can hope.
>
> --... ...--
> Dale - WC7S in Wy

9400. RE: [AT_Sprint] RMR net report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-05 22:24:05 UTC
From: Dale Putnam
Topic: 9390 Message: 9400

I'll be watching for you, Doug... time has a way of doing that, it seems... especially in the middle of the day. C U Thurs.
--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: ki6ds@...
Date: Tue, 5 Jun 2012 15:06:08 -0700
Subject: re: [AT_Sprint] RMR net report

I intended to check in today Dale, but time got away from me. Will try to

make it on Thursday. Doug

-------- Original Message --------

> From: "Dale Putnam" <daleputnam@hotmail.com>

> Sent: Tuesday, June 05, 2012 3:04 PM

> To: qrp-l@..., "AT Sprint" <at_sprint@yahoogroups.com>,

"4SQRP" <4sqrp@...>

> Subject: [AT_Sprint] RMR net report

>

> The RMR net report for 5 June WB1HGA Ron in Ma checked in today, a decent

signal, solid copy with QSB, on a Kenwood at 4w. The weather is full of

static here, wind is relentless, and the antennas are slapping about.See

you all Thursday, without the qsb, we can hope.

>

> --... ...--

> Dale - WC7S in Wy

9401. RE: [AT_Sprint] RMR net report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-06 12:17:00 UTC
From: Carl Neidert
Topic: 9390 Message: 9401

Since I missed this one, when will you do it again? Carl K4EAY

9402. CQ N7UN

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-06 14:27:34 UTC
From: Dale Putnam
Topic: 9402 Message: 9402

CQ N7UN, CQ N7UN

--... ...--
Dale - WC7S in Wy

9403. Re: Altoid Box Artwork

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-06 13:51:33 UTC
From: katsumi.seto
Topic: 9391 Message: 9403

The easiest way is to use a glossy adhesive label for inkjet printer. Better to choose water-resistant and post card size. de ja7qil/katsu

--- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
>
> I have seen many great looking Sprint and MTR rigs in the photos section. Many have digital pictures of local high spots, etc. What is the technique folks are using?. Are they printed onto a glossy laminate material or are they printed onto an adhesive label? Whatever the technique, where do you get the material from? My MTR works great but looks a bit shabby and can use a makeover. I finished it with several coats of Heath kit green then applied rub on dry lettering and some clear Krylon. It is definitely old school and looks it. How do I dress it up?
> 73, Dave K1THP
>

9404. Re: [AT_Sprint] RMR net report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-06 16:19:01 UTC
From: Steven Weber
Topic: 9390 Message: 9404

Maybe in the fall, assuming I get back from the hike through grizzly country in Montana during July/August alive!!
Since I missed this one, when will you do it again? Carl K4EAY

9405. Re: [AT_Sprint] Re: Altoid Box Artwork

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-06 17:41:34 UTC
From: WA0ITP
Topic: 9391 Message: 9405

Here's the procedure I use, it's similar to Katsu's.
http://www.wa0itp.com/ats3.html#Labeltips
http://www.wa0itp.com/making%20labels%20ozarkcon%202005%20presentation.pdf

Good luck and have fun.

I love this radio stuff !
72, 73 Terry, WA?ITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "katsumi.seto" <katsumi.seto@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Wednesday, June 06, 2012 8:51 AM
Subject: [AT_Sprint] Re: Altoid Box Artwork

| The easiest way is to use a glossy adhesive label for inkjet
printer. Better to choose water-resistant and post card size. de
ja7qil/katsu
|
| --- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
| >
| > I have seen many great looking Sprint and MTR rigs in the photos
section. Many have digital pictures of local high spots, etc. What is
the technique folks are using?. Are they printed onto a glossy
laminate material or are they printed onto an adhesive label? Whatever
the technique, where do you get the material from? My MTR works great
but looks a bit shabby and can use a makeover. I finished it with
several coats of Heath kit green then applied rub on dry lettering and
some clear Krylon. It is definitely old school and looks it. How do I
dress it up?
| > 73, Dave K1THP
| >
|
|
|
|
| ------------------------------------
|
| Yahoo! Groups Links
|
|
|

9406. Re: ATS4 Firmware Flash

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-06 19:02:32 UTC
From: mpupeza
Topic: 9385 Message: 9406

Bob,
Leave the cable as you now have it set!
You are doing something wrong in the software setup. I wish I knew more about it but I just kept trying various ways and was able to, finally, get it to fly.
Go through the posts that I sent, and received, and it may come to you. I do know that there were MORE parameters to set than the original instructions. The debug icon pops alive when the software is ready for the flash. Suddenly, it'll work. As I recall, I used ONLY the .s43 file, then told it to 'build' then it 'compiled' with no errors and it was ready to flash.
I doubt that you can do it wrong if it gets that far as to flash.
Good luck.
Mike VE3EQP .....>

--- In AT_Sprint@yahoogroups.com, "bob_nelson_k2qpn" <K2QPN@...> wrote:
>
>
> I have ohmed out the cable several times and compared against the pictures - it looks OK. I scoped the voltages and found 3 lines a 3.3 volts and 2 at 5v.. I shorted the resistors on the 3.3v lines...no help.
>
> If I follow the directions and open the ATS4ND.prj file and then open the ATS4ND.s43 file, the debug icon is grayed out. I have to load the ats4edit.eww workspace file to get to debug. any ideas?
>
> 73, Bob K2QPN
>
>
> --- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@> wrote:
> >
> > Ge Bob
> > I had a similar problem with the cable I built. Mine problem turned out to
> > be that the picture I was looking at to build the cable from was a mirror
> > image of the one I had built.
> > Bottom line is, if I says it can;t find the device, it most likely is a
> > cable issue.
> > Take a look and yours and see if this helps, it worked for me!
> > 73
> > Johnny AC0BQ
> >
> > On Sun, Jun 3, 2012 at 7:22 PM, bob_nelson_k2qpn <K2QPN@> wrote:
> >
> > > **
> > >
> > >
> > > I am trying to flash the firmware in a ATS4 (original). No luck. I made a

> > > cable per the documentation. Ohmed it out several times - seems OK. I
> > > attach the cable and power on the ATS4. If I use workbench and open
> > > ATS4ND.prj and then AST4ND.s43, the debug icon is grayed out. If I open the
> > > ats4edit.eww file, I can start debug. Debug then complies the code but
> > > fails "Can't find device".
> > >
> > > Any ideas?
> > >
> > > Bob K2QPN
> > >
> > >
> > >
> >
>

9407. ATS 3 THROUGH ATS-3B1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-07 13:44:33 UTC
From: wa2ohf
Topic: 9407 Message: 9407

Anyone have a unbuilt or unfinished unit that they
would sell. I'm wanting to build another one
NS7E Arthur
952-758-2421

9408. Re: RMR net report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-07 18:39:01 UTC
From: ke7ngo11
Topic: 9390 Message: 9408

Sounds like a fantastic adventure, have fun.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Maybe in the fall, assuming I get back from the hike through grizzly country in Montana during July/August alive!!
> Since I missed this one, when will you do it again? Carl K4EAY
>

9409. ATS 3A - low power output - help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-08 09:29:03 UTC
From: richardk4krw
Topic: 9409 Message: 9409

I have an ATS 3A that has low output power. I'd like to get it working properly.

When I built it I did not have a QRP watt meter. So, I didn't realize how bad it was. I built a WM-2 and now I can see I clearly have a problem.

Here is the output power on all bands with a 9V power supply.

20m 0.5W
30m .9W
40m .9W
80m 0.08W

While I don't have much for test equipment (VOM - analog & digital, watt meter, my other transceiver), I do have friends with other equipment if needed.

Any suggestions on where I should start looking?

Thanks,

Richard
K4KRW

9410. RE: [AT_Sprint] ATS 3A - low power output - help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-08 11:29:13 UTC
From: Dale Putnam
Topic: 9409 Message: 9410

Hi Richard, A little more information would be very helpful. It is also very very good that you are using a 9v supply too. That will allow a little more freedom to tune it, without stressing the finals. That power level indicates that all the connections are in good condition. The adjustment that can be done is the squeezing or spreading of the turns of the toroids on the filter board, L2 and L1. Before adjusting them, an extra recount of the turns would be in order. The current drawn during tx could be monitored and recorded. It shouldn't go any over 900ma. With 9 volts expect to see something around500ma
--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: r_in_remac@...
Date: Fri, 8 Jun 2012 09:29:03 +0000
Subject: [AT_Sprint] ATS 3A - low power output - help

I have an ATS 3A that has low output power. I'd like to get it working properly.

When I built it I did not have a QRP watt meter. So, I didn't realize how bad it was. I built a WM-2 and now I can see I clearly have a problem.

Here is the output power on all bands with a 9V power supply.

20m 0.5W

30m .9W

40m .9W

80m 0.08W

While I don't have much for test equipment (VOM - analog & digital, watt meter, my other transceiver), I do have friends with other equipment if needed.

Any suggestions on where I should start looking?

Thanks,

Richard

K4KRW

9411. BNC conncector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-08 12:38:56 UTC
From: Dale Putnam
Topic: 9411 Message: 9411

Some interest in the chassis mount bnc connector that I use on the Altoids and other mounts for the AT series radios. These are very nice in that they mount with very little real estate used inside the box, and they allow the lid to close correctly, if the hole is cut critically.If there is interest, I will stock these for folks. Please let me know of your interest, no need to order now, just let me know, k?
--... ...--
Dale - WC7S in Wy

9412. RE: BNC conncector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-08 12:40:11 UTC
From: Dale Putnam
Topic: 9411 Message: 9412

they price out at $12.

--... ...--
Dale - WC7S in Wy
From: daleputnam@hotmail.com
To: at_sprint@yahoogroups.com
Subject: BNC conncector
Date: Fri, 8 Jun 2012 06:38:56 -0600

Some interest in the chassis mount bnc connector that I use on the Altoids and other mounts for the AT series radios.

These are very nice in that they mount with very little real estate used inside the box, and they allow the lid to close correctly, if the hole is cut critically.
If there is interest, I will stock these for folks.
Please let me know of your interest, no need to order now, just let me know, k?

--... ...--
Dale - WC7S in Wy

9413. Great Workmanship

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-08 13:55:17 UTC
From: WA0ITP
Topic: 9413 Message: 9413

Katsu's workmanship and artistic abilities are excellent, check out
his latest pictures.
http://groups.yahoo.com/group/AT_Sprint/photos/album/694089783/pic/1700153664/view?prop=eupdate
---
I love this radio stuff !
72, 73 Terry, WA?ITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

9414. Re: [AT_Sprint] BNC conncector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-08 17:44:16 UTC
From: Johnny Matlock
Topic: 9411 Message: 9414

I could use 2 of those Dale.
Tnx
Johnny AC0BQ

On Friday, June 8, 2012, Dale Putnam wrote:

> **
>
>
> they price out at $12.
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> From: daleputnam@...m <javascript:_e({}, 'cvml',
> 'daleputnam@...');>
> To: at_sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'at_sprint@yahoogroups.com');>
> Subject: BNC conncector
> Date: Fri, 8 Jun 2012 06:38:56 -0600
>
> Some interest in the chassis mount bnc connector that I use on the
> Altoids and other mounts for the AT series radios.
> [image: CONN JACK BNC STR 50 OHM WIRE AU | 5227426-1 | A32336-ND |
> Digi-Key Corp.]<http://media.digikey.com/photos/Tyco%20Amp%20Photos/227426-1.jpg>
>
> These are very nice in that they mount with very little real estate used
> inside the box, and they allow the lid to close correctly, if the hole is
> cut critically.
> If there is interest, I will stock these for folks.
> Please let me know of your interest, no need to order now, just let me
> know, k?
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>

9415. RE: [AT_Sprint] BNC conncector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-08 19:14:39 UTC
From: Dale Putnam
Topic: 9411 Message: 9415

Hi Johnny, Oh good, I'm sure you will love 'em. What's your mailing address? I'll ship them out soonest, let you know when, k?My paypal is this address: daleputam@... or check... mo.. k?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: jomatlock@...
Date: Fri, 8 Jun 2012 12:44:16 -0500
Subject: Re: [AT_Sprint] BNC conncector

I could use 2 of those Dale. Tnx Johnny AC0BQ

On Friday, June 8, 2012, Dale Putnam wrote:

they price out at $12.

--... ...--
Dale - WC7S in Wy

From: daleputnam@...
To: at_sprint@yahoogroups.com

Subject: BNC conncector
Date: Fri, 8 Jun 2012 06:38:56 -0600

Some interest in the chassis mount bnc connector that I use on the Altoids and other mounts for the AT series radios.

These are very nice in that they mount with very little real estate used inside the box, and they allow the lid to close correctly, if the hole is cut critically.
If there is interest, I will stock these for folks.

Please let me know of your interest, no need to order now, just let me know, k?

--... ...--
Dale - WC7S in Wy

9416. Re: [AT_Sprint] RE: BNC conncector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-08 19:26:23 UTC
From: Steve Russell
Topic: 9411 Message: 9416

Hi Dale,

Pricey little devils, but I hate having to bother with adapters, so, could you send me 2 of them? So, tell me how you are able to close the Altoids top with that BNC and other connectors?

I'll send it to the PayPal address you recently provided to someone. My address:

Steve Russell, N7SR
5617 133rd Street Court
Apple Valley, MN 55124

If you think the MTR might be ready to go out in a week or so, just include them in that package. Thanks.

72,

Steve, N7SR

they price out at $12.

--... ...--Dale - WC7S in Wy

From: daleputnam@...
To: at_sprint@yahoogroups.com
Subject: BNC conncector
Date: Fri, 8 Jun 2012 06:38:56 -0600

Some interest in the chassis mount bnc connector that I use on the Altoids and other mounts for the AT series radios.

These are very nice in that they mount with very little real estate used inside the box, and they allow the lid to close correctly, if the hole is cut critically.
If there is interest, I will stock these for folks.
Please let me know of your interest, no need to order now, just let me know, k?

--... ...--Dale - WC7S in Wy

9417. Re: [AT_Sprint] Great Workmanship

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-08 19:48:26 UTC
From: Thomas Kuehl
Topic: 9413 Message: 9417

Indeed, a very nice example of workmanship on Katsu's MTR. The Fujiyama illustration on the case is a nice Japan mountain touch. I wonder what the fist pump to MTR weight ratio is for Katsu's set-up?

'73, Thomas - ac7a

From: WA0ITP <wa0itp@...>
To: AT_Sprint@yahoogroups.com
Sent: Friday, June 8, 2012 6:55 AM
Subject: [AT_Sprint] Great Workmanship

Katsu's workmanship and artistic abilities are excellent, check out
his latest pictures.
http://groups.yahoo.com/group/AT_Sprint/photos/album/694089783/pic/1700153664/view?prop=eupdate
---
I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

9418. Re: [AT_Sprint] RE: BNC conncector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-08 21:06:37 UTC
From: Sid Leben
Topic: 9411 Message: 9418

Dale,
I'll take (2) pieces..
Thanks

Sid Leben
KC2EE

From: Dale Putnam <daleputnam@...<mailto:daleputnam@...>>
Reply-To: "AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>"
<AT_Sprint@...m<mailto:AT_Sprint@yahoogroups.com>>
Date: Fri, 8 Jun 2012 05:40:11 -0700
To: AT Sprint <at_sprint@yahoogroups.com<mailto:at_sprint@yahoogroups.com>>
Subject: [AT_Sprint] RE: BNC conncector

they price out at $12.

--... ...-- Dale - WC7S in Wy

From: daleputnam@hotmail.com<mailto:daleputnam@...>
To: at_sprint@yahoogroups.com<mailto:at_sprint@yahoogroups.com>
Subject: BNC conncector
Date: Fri, 8 Jun 2012 06:38:56 -0600

Some interest in the chassis mount bnc connector that I use on the Altoids and other mounts for the AT series radios.
[http://media.digikey.com/photos/Tyco%20Amp%20Photos/227426-1_sml.jpg]<http://media.digikey.com/photos/Tyco%20Amp%20Photos/227426-1.jpg>

These are very nice in that they mount with very little real estate used inside the box, and they allow the lid to close correctly, if the hole is cut critically.
If there is interest, I will stock these for folks.
Please let me know of your interest, no need to order now, just let me know, k?

--... ...--Dale - WC7S in Wy

9419. Re: [AT_Sprint] Great Workmanship

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-09 00:55:30 UTC
From: Steve
Topic: 9413 Message: 9419

Any idea what box was used for the MTR? It looks just perfect!
Steve
aa8af

On Jun 8, 2012, at 9:55 AM, WA0ITP wrote:

> Katsu's workmanship and artistic abilities are excellent, check out
> his latest pictures.
> http://groups.yahoo.com/group/AT_Sprint/photos/album/694089783/pic/1700153664/view?prop=eupdate

9420. Re: [AT_Sprint] Great Workmanship

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-09 01:00:04 UTC
From: Johnny Matlock
Topic: 9413 Message: 9420

Very nice!!!! Great job of mounting it in the box as well,
Johnny AC0BQ

On Fri, Jun 8, 2012 at 8:55 AM, WA0ITP <wa0itp@...> wrote:

> **
>
>
> Katsu's workmanship and artistic abilities are excellent, check out
> his latest pictures.
>
> http://groups.yahoo.com/group/AT_Sprint/photos/album/694089783/pic/1700153664/view?prop=
eupdate
> ----------
> I love this radio stuff !
> 72, 73 Terry, WAØITP
> wa0itp@wa0itp.com
> www.wa0itp.com
> www.4sqrp.com
> www.qrpspots.com
>
>
>

9421. Help with ATS 4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-09 11:10:20 UTC
From: db66jy
Topic: 9421 Message: 9421

Hi
I finally managed to finish my ATS 4B. It seemed to be working great but the frequency on 20 meters jumped to 65 Mhz. (Maybe when I tried to turn on the split function?) This happened a couple of times when I was testing and aligning it but then went back to 14 Mhz and it seemed to be working fine Now that its tucked into the case it jumped to back 65 Mhz with a loud tone in the headphones All of the other bands seem to behave correctly.

Any ideas where I should hunt for the problem? I had a few solder joints that needed help earlier so I suspect there is another one somewhere.

Dan
AD6JY

9422. Re: Great Workmanship

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-09 05:40:57 UTC
From: katsumi.seto
Topic: 9413 Message: 9422

Hi Steve

I am not sure if you can puchase it locally in your country. The box I used is TAKATCHI SW-95. Below is the link to the vendor's site.

http://www.takachi-enclosure.com/

SW series boxes can be found in this brochure.

http://www.takachi-enclosure.com/data/pdf/en2011_025.pdf

SW-95 is about 2 USD here in Tokyo.

Just for your info., this is what I used to prepare the box.

http://homepage3.nifty.com/VYG06610/A1C/Bonepile/MRT_Templace_Label_01.pptx

de ja7qil/katsu

--- In AT_Sprint@yahoogroups.com, Steve <lawresh@...> wrote:
>
> Any idea what box was used for the MTR? It looks just perfect!
> Steve
> aa8af
>
> On Jun 8, 2012, at 9:55 AM, WA0ITP wrote:
>
> > Katsu's workmanship and artistic abilities are excellent, check out
> > his latest pictures.
> > http://groups.yahoo.com/group/AT_Sprint/photos/album/694089783/pic/1700153664/view?prop=eupdate
>

9423. NAQCC Sprint Tuesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-09 13:57:50 UTC
From: John D Raycroft
Topic: 2905 Message: 9423

NAQCC Sprint Tuesday night!

Our June sprint is this coming Tuesday evening local time (May 16, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Wednesday June 13, 0030-0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201206.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX. A Certificate for top score in the GAIN antenna category. Finally there is one more award - a certificate to the highest score from a first-time participant.

Prizes: A prize of a set of bug/paddle handles or a K1/K2 knob insert donated by master woodworker Gregg WB8LZG is awarded for each sprint to the winner of a random drawing among all participants. Previous winners are not eligible.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6000+ members in: All 50 States - 9 VE Provinces - 90 Countries. Just sign up on the NAQCC website (http://naqcc.info/) and you will receive a handsome certificate, with your membership number which is good for life.

Added Note: The NAQCC European Chapter Sprint will also take place Wednesday, June 13, 1800-2000 UTC. Full information on their website at: naqcc-eu.org/

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

9424. RE: [AT_Sprint] Help with ATS 4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-09 14:39:29 UTC
From: Dale Putnam
Topic: 9421 Message: 9424

Hi Dan, Seems you and Murphy have a good relationship going here. I just hate when he comes around here. It might pay to inspect with a 30X glass, all the joints or connections around U7 and U10. Close inspection, for me, is faster than reheating,and safer for the plastic too. I can make the button tops look really weird with a hot soldering iron.Good hunting,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: dancbirnbaum@gmail.com
Date: Sat, 9 Jun 2012 11:10:20 +0000
Subject: [AT_Sprint] Help with ATS 4B

Hi

I finally managed to finish my ATS 4B. It seemed to be working great but the frequency on 20 meters jumped to 65 Mhz. (Maybe when I tried to turn on the split function?) This happened a couple of times when I was testing and aligning it but then went back to 14 Mhz and it seemed to be working fine Now that its tucked into the case it jumped to back 65 Mhz with a loud tone in the headphones All of the other bands seem to behave correctly.

Any ideas where I should hunt for the problem? I had a few solder joints that needed help earlier so I suspect there is another one somewhere.

Dan

AD6JY

9425. Alive...at least I think so :)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-09 20:36:27 UTC
From: andrew.cross
Topic: 9425 Message: 9425

Hello All

Pleased to report that S/N026 came to life this evening. The LED shows the number 4 for a short while on power up which I think is correct, and through some ipod earbuds I can hear it send the number four, but its quite faint. Is that how it should be? I wasn't sure if it should be louder or not? Still to do the other tests and calibration, but I'll leave those until the morning.

Relieved for now
Andrew
M0ONZ

9426. Re: MTR: Flexing Altoids detunes MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-11 21:47:11 UTC
From: wrmoore47
Topic: 9337 Message: 9426

Finally got around to opening up the MTR again to look for this problem and had to chuckle when I did. I had failed to clip the underside of the wire from the PC board up to the antenna connector! It was clearing the Altoids box by about 0.1mm. So any pressure on the box in that area shorted the antenna to the box! Now I'm totally happy with my little MTR!

Check out my pix in the Photos folder "MTR KS4L".

73,
Randy, KS4L

>
> --- In AT_Sprint@yahoogroups.com, "wrmoore47" <wrmoore47@> wrote:
> >
> > My MTR is working fine, but I accidentally discovered that if I put a little pressure on the Altoids tin near the upper band toggle switch, signals drop way down to almost nothing. Releasing the pressure returns things to normal. I've checked to make sure the switch enclosure is grounded. What else could be causing this???
> >
> > 73,
> > Randy, KS4L
> >
>

9427. Want to buy ATS3*

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-11 19:59:56 UTC
From: Bradley
Topic: 9427 Message: 9427

Hi,

Looking for a ATS3 or other trail sized radio.

Assembled or unassebled OK

Thanks,

Brad
KZ5W

9428. Re: MTR: Flexing Altoids detunes MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-11 23:38:45 UTC
From: n1rx
Topic: 9337 Message: 9428

Yup, that would definately do it... 8-)
Glad you found the problem.
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "wrmoore47" <wrmoore47@...> wrote:
>
> Finally got around to opening up the MTR again to look for this problem and had to chuckle when I did. I had failed to clip the underside of the wire from the PC board up to the antenna connector! It was clearing the Altoids box by about 0.1mm. So any pressure on the box in that area shorted the antenna to the box!

9429. Re: Alive...at least I think so :)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-11 23:43:08 UTC
From: n1rx
Topic: 9425 Message: 9429

Andrew- I assume you are writing about an MTR (since you gave a s/n...) The sidetone from the MCU (including the band announcement, should be fairly loud. Check the connections between the sidetone output of the MCU (U10 pin 3) and the audio output stage.

73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "andrew.cross" <andrewcross_za@...> wrote:
>
> Hello All
>
> Pleased to report that S/N026 came to life this evening. The LED shows the number 4 for a short while on power up which I think is correct, and through some ipod earbuds I can hear it send the number four, but its quite faint. Is that how it should be? I wasn't sure if it should be louder or not? Still to do the other tests and calibration, but I'll leave those until the morning.
>
> Relieved for now
> Andrew
> M0ONZ
>

9430. Re: [AT_Sprint] Want to buy ATS3*

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-11 23:57:04 UTC
From: john dean
Topic: 9427 Message: 9430

I would like to buy any assembled ATS

--- On Mon, 6/11/12, Bradley <bcarlsonkz5w@...> wrote:

From: Bradley <bcarlsonkz5w@...>
Subject: [AT_Sprint] Want to buy ATS3*
To: AT_Sprint@yahoogroups.com
Date: Monday, June 11, 2012, 3:59 PM

Hi,

Looking for a ATS3 or other trail sized radio.

Assembled or unassebled OK

Thanks,

Brad

KZ5W

9431. Re: Alive...at least I think so :)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-12 20:25:09 UTC
From: andrew.cross
Topic: 9425 Message: 9431

--- I assume you are writing about an MTR (since you gave a s/n...) The sidetone from the MCU (including the band announcement, should be fairly loud. Check the connections between the sidetone output of the MCU (U10 pin 3) and the audio output stage.---

Thanks Bruce. Yes, it's an MTR. Some kind advice from the group suggested I try different earphones which I did. This was helpful and did help to some extent when I changed to a pair with 102dB and 16 ohms. On receiving your post though, I looked again with the magnifying visor, but this time I just stared at pin 3 on U10. It eventually became clear that a minuscule spike of solder from the rear edge of the foot of pin 4 (GND I think it is) was or might be touching pin 3. I was amazed at how difficult this was to find - I literally had to stare at it for a while to see it! It has 'done the trick'. The band annunciation volume is much improved, it probably more than doubled, and I think its sounds right now, thank you.

Other tests and calibrations have gone well and I am now enjoying this wonderful little radio.

Thank again to Steve and the group!

All the best
Andrew
M0ONZ

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
>
> Andrew- I assume you are writing about an MTR (since you gave a s/n...) The sidetone from the MCU (including the band announcement, should be fairly loud. Check the connections between the sidetone output of the MCU (U10 pin 3) and the audio output stage.
>
> 73,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, "andrew.cross" <andrewcross_za@> wrote:
> >
> > Hello All
> >
> > Pleased to report that S/N026 came to life this evening. The LED shows the number 4 for a short while on power up which I think is correct, and through some ipod earbuds I can hear it send the number four, but its quite faint. Is that how it should be? I wasn't sure if it should be louder or not? Still to do the other tests and calibration, but I'll leave those until the morning.
> >
> > Relieved for now
> > Andrew
> > M0ONZ

> >
>

9432. Re: Alive...at least I think so :)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-12 21:45:33 UTC
From: n1rx
Topic: 9425 Message: 9432

Excellent, Andrew! I am glad you were able to bring it to book with some intense staring. 8-) Enjoy your new rig!
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "andrew.cross" <andrewcross_za@...> wrote:
> Thanks Bruce. Yes, it's an MTR. Some kind advice from the group suggested I try different earphones which I did. This was helpful and did help to some extent when I changed to a pair with 102dB and 16 ohms. On receiving your post though, I looked again with the magnifying visor, but this time I just stared at pin 3 on U10. It eventually became clear that a minuscule spike of solder from the rear edge of the foot of pin 4 (GND I think it is) was or might be touching pin 3. I was amazed at how difficult this was to find - I literally had to stare at it for a while to see it! It has 'done the trick'. The band annunciation volume is much improved, it probably more than doubled, and I think its sounds right now, thank you.
>
> Other tests and calibrations have gone well and I am now enjoying this wonderful little radio.
>
> Thank again to Steve and the group!
>
> All the best
> Andrew
> M0ONZ

9433. Father's Day Night RFTB

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-17 03:16:52 UTC
From: Larry Makoski
Topic: 9433 Message: 9433

Happy Father's Day to all the Dads out there!

Father's Day night happens to be the June 2012 edition of the Run For The Bacon. That friendly lil' ol' QRP Sprint sponsored by your friends at the Flying Pigs QRP Amateur Radio Club International. Join us for a spell to have some fun and to say "Hi" to friends, old and new.

The time is the same as always:

East coast - 9:00 to 11:00 PM local time
Midwest - 8:00 to 10:00 PM local time
Rockies - 7:00 to 9:00 PM local time
West coast - 6:00 to 8:00 PM local time

The rules are at:

http://fpqrp.org/pigrun/

73 de Larry W2LJ
FP# 612
QRP ARCI# 4488

9434. MTR - 80 M receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-20 16:26:04 UTC
From: Steven Weber
Topic: 9434 Message: 9434

Those few who built the MTR with the 80M band may have noticed poor sensitivity on receive. It seems I over estimated the amount of capacitance needed to pad the trimmer caps. Replace the supplied 47 pfd with 22 pfd caps and you will be able to peak the input and get proper sensitivity.

Sorry it took so long to investigate this and find the answer..
Steve KD1JV

9436. ATS3B at KB5JO/VE3

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-20 20:02:47 UTC
From: russellhulett
Topic: 9436 Message: 9436

Used the ATS3B again from grid EO31om, Poirier Lake, Ontario (http://www.loonhaunt.com/poirier/) May 26 to June 9, 20M only.
There is a picture of the station under photos in the KB5JO folder. Used an EFHW tuner and 34' wire in a tree, no counterpoise, just like last year, 3W most of the time power from 8 worn AA cells.

The band seemed in poorer shape than last year, but still made more than 50 QSOs with folks all over the US & Canada. Unfortunately, no ATS/ATS QSOs. The longest path was to AK, about 2200 miles. No record, but still impressive.

The little radio continues to impress me every time I use it.

Apologies for the bragging...

73, Curt KB5JO (/VE3)

9437. MTR blessed event for number 0103

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-21 13:35:54 UTC
From: ber8g0ocm
Topic: 9437 Message: 9437

Morning gang,
Yesterday I got the first contact with my newly built MTR. It was with Jack, W5WQQ also a qrp op. I got a 539 despite the qsb on the signal.
I was so happily surprised since I had to replace the CPU chip that Steve was kind to send out to us. It is a great little radio. I am using an end fed half wave ant with a homebrew SOTA tuner based on the Hendrick's model. What great fun.Special thanks to Steve for the great little radio and Dale for his support.

72,

Barry, ai2h

9438. Re: [AT_Sprint] MTR blessed event for number 0103

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-21 14:08:37 UTC
From: Peter Martin
Topic: 9437 Message: 9438

On Thu, Jun 21, 2012 at 2:35 PM, ber8g0ocm <ber8g0ocm@...> wrote:

> Morning gang,
> Yesterday I got the first contact with my newly built MTR. It was with
> Jack, W5WQQ also a qrp op. I got a 539 despite the qsb on the signal.
> I was so happily surprised since I had to replace the CPU chip that
> Steve was kind to send out to us. It is a great little radio. I am using an
> end fed half wave ant with a homebrew SOTA tuner based on the Hendrick's
> model. What great fun.Special thanks to Steve for the great little radio
> and Dale for his support.
>
> 72,
>
> Barry, ai2h
>

Well done Barry, enjoy.
You've just reminded me that I have a processor waiting in an envelope to
post back to Steve, whoops!

I also run mine with an EFHW, it's been great so far.
My first outing with #55 here -
http://youtu.be/Ffje8VVcUKk

72
Pete
G4ISJ

9439. Re: [AT_Sprint] MTR blessed event for number 0103

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-21 16:18:55 UTC
From: Milton A Riutort
Topic: 9437 Message: 9439

Barry:

We are proud owners of one of the smallest and well design portable radio. Now that you have the privilege to operate one of them understand the happiness this mean to us.

Welcome!

Milton A Riutort
NP4KT

On Jun 21, 2012, at 9:35 AM, "ber8g0ocm" <ber8g0ocm@...> wrote:

> Morning gang,
> Yesterday I got the first contact with my newly built MTR. It was with Jack, W5WQQ also a qrp op. I got a 539 despite the qsb on the signal.
> I was so happily surprised since I had to replace the CPU chip that Steve was kind to send out to us. It is a great little radio. I am using an end fed half wave ant with a homebrew SOTA tuner based on the Hendrick's model. What great fun.Special thanks to Steve for the great little radio and Dale for his support.
>
> 72,
>
> Barry, ai2h
>
>

9440. MTR and Field Day

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-22 00:49:27 UTC
From: philip_graitcer
Topic: 9440 Message: 9440

I am on St Simons Island off the coast of GA with my MTR #57. I plan to operate o n at least Saturday during Field Day weekend with it and an EFHW antenna. I will be using the call, N4FD. Listen up!

Phil, W3HZZ

9442. FS: Unbuilt MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-24 19:28:41 UTC
From: russellhulett
Topic: 9442 Message: 9442

After ordering, life has gotten too busy here to build it anytime soon. $110 shipped CONUS. Contact me offline if interested.

73, Curt, KB5JO

9443. Re: FS: Unbuilt MTR (SOLD)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-24 20:05:38 UTC
From: russellhulett
Topic: 9442 Message: 9443

Sold, thanks

--- In AT_Sprint@yahoogroups.com, "russellhulett" <rhulett1@...> wrote:
>
> After ordering, life has gotten too busy here to build it anytime soon. $110 shipped CONUS. Contact me offline if interested.
>
> 73, Curt, KB5JO
>

9444. FOX hunt and FD report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-24 23:14:30 UTC
From: Dale Putnam
Topic: 9444 Message: 9444

Ok.. FD report.. with just a little over an hour to spend, I worked only 20 meters. And logged 25 states.... not bad for an hours worth of work, with the new Fox chaser... Tri-Bander, and a 100 foot doublet, at 20 foot. I had a lot of fun, and it was good to be able to tune across 20 and find signals, over most of the band. For those that worked me... you were in Qso with a 9v solar charged battery powered station. Yep.. qrp.. ain't it a kick? And now.. the TB is rarin' to go get a FOX!! And that is going to happen, right soon too. Get ready! Thursday is the big day... the next sound you hear... will be the TB... being locked and loaded!! I'm so ready.. can you tell? My goal for the TB is to WAS with it on 20 this year. SO.. get ready.. here we go... Here foxii.. Here FOXii... Here FOXII>> HERE FOXII>... (is it workin yet?) See you Thursday evening... or Friday morning.. if you have a GMT clock.

--... ...--
Dale - WC7S in Wyhttp://www.qrpfoxhunt.org

9445. Re: [AT_Sprint] FOX hunt and FD report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 03:33:38 UTC
From: Roland Whitsitt
Topic: 9444 Message: 9445

Enjoyed reading you report. So guess I'll add mine too.
Used my two tri-banders for fieldday. In the backyard because just spent 5 days traveling and enjoying disneyland. So already a bit worn. Solar charged motorcycle battery. Pop-up 6' x 6' x 6' screened awning, although for the 1st time in a decade, the temps were in the 70's and not the usual 106! Casually managed 35 qso's which is a good haul for me, even with a hundred watts.. Very impressed with 80 meters. Worked 25 sections. Antenna was 71' wire over a 60' tree, so a sloppy inverted 'L' with a UNUM and 35.5' counter poise. I was prepared to switch to a 100 watt icom706 but never felt the need. My code is about 17wpm so I had to listen a couple few times for stations sending faster. I usually stay up all night, but this time was happy to end at 1am local time. About 12 hours on and off operating.
De n5vwn

Sent from my iPhone

On Jun 24, 2012, at 16:14, Dale Putnam <daleputnam@...> wrote:

> Ok.. FD report.. with just a little over an hour to spend, I worked only 20 meters. And logged 25 states.... not bad for an hours worth of work, with the new Fox chaser... Tri-Bander, and a 100 foot doublet, at 20 foot. I had a lot of fun, and it was good to be able to tune across 20 and find signals, over most of the band.
> For those that worked me... you were in Qso with a 9v solar charged battery powered station. Yep.. qrp.. ain't it a kick?
>
> And now.. the TB is rarin' to go get a FOX!! And that is going to happen, right soon too. Get ready! Thursday is the big day...
> the next sound you hear... will be the TB... being locked and loaded!!
>
> I'm so ready.. can you tell?
>
> My goal for the TB is to WAS with it on 20 this year. SO.. get ready.. here we go...
> Here foxii.. Here FOXii... Here FOXII>> HERE FOXII>...
>
> (is it workin yet?)
>
> See you Thursday evening... or Friday morning.. if you have a GMT clock.
>
>
> --... ...-- Dale - WC7S in Wy
> http://www.qrpfoxhunt.org
>
>
>
>
>
>

>

9446. ATS4B Build

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 06:14:13 UTC
From: andrew.cross
Topic: 9446 Message: 9446

Hello,

I am as far as page 16 of the assembly only manual in the build of my ATS4B - Toroid Coils!

I am confused with the wording of the paragraph below from that page which explains the details on the toroid coils and their locations. If I simply ignore this written part and simply go on the table (also copied in below) I think that I know what to do, ie it makes sense in terms of how my board is labelled - it is labelled with L11 through to L20 and appears to be logically oriented left to right on the board for the toroid locations. Its the written paragraph that seems at odds with the board and table? For example, 'note the difference in number of turns for L18 and L17 depending if you are building for 17 or 15 meters - it seems to me that 17/15 are at locations L19 and L20?

Please could someone help me by confirming which way is correct here, do I just follow the table? I am probably missing the obvious or perhaps my board had revisions to the labelling or something? As I say, probably me :)

I'm sorry to be hassle, but I have re-read it several times and just cannot grasp any certainty from it, certainty I would like as I progress slowly and steadily with what has been a really enjoyable build!

Many thanks in advance.
Andrew

QUOTED SECTION - From pg16 of the ATS4B Assembly manual under the heading, Toroid Coils!

Note that the L15 and L16 labels were duplicated for the 17/15 meter
locations and obviously should have been labeled L17 and L18. Also note the difference in number of turns for L18 and L17 depending if
your building for 17 or 15 meters. Besides the resistor value used in band select, this is the only difference between these two bands. Install
the coils as you wind them so that they don't get mixed up.

80 Meters L11, T30-2 (Red), 23 turns (12□") L12, Red, 26 turns (13")
40 Meters L13, T30-2 (Red), 16 turns (8□") L14, Red, 19 turns (10□")
30 Meters L15, T30-2 (Red) 12 turns (7□") L16, Red, 14 turns (7")
20 Meters L17, Yellow, 11 turns (6□") L18, T30-6 (Yellow), 16 turns (7.5")
17 Meters L19, Yellow, 12 turns (6□") L20, T30-6 (Yellow), 14 turns (7.5□")
15 Meters L19, Yellow, 10 turns (6□") L20, T30-6 (Yellow), 12 turns (6□")

L26 .
wind ten (10) turns on black FT37-43 core and install flat to board.

Wind coils with wire evenly spaced around core.

9447. A New Week and MORE fun!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 12:10:08 UTC
From: Dale Putnam
Topic: 9447 Message: 9447

Alrighty then, a new week dawns...the aches and memories of a Field Day gone by, and the promise of more fun... the Summer Season of FOXHUNTING is about to open... WHAHOOOOOO!!!!Are you ready? Ready for more fun in 90 minutes on a Thursday evening, than I can find anywhere else!! And I can find some fun now... really. Check it out.. and getter ready... Locked and Loaded... it's just about time.. and none too soon, either.http://www.qrpfoxhunt.org/summer_rules.htm yep.. Summer Rules..... oh yeah!

--... ...--
Dale - WC7S in Wy

9448. Re: [AT_Sprint] ATS4B Build

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 13:44:52 UTC
From: Steven Weber
Topic: 9446 Message: 9448

QUOTED SECTION - From pg16 of the ATS4B Assembly manual under the heading, Toroid Coils!

Note that the L15 and L16 labels were duplicated for the 17/15 meter locations and obviously should have been labeled L17 and L18. Also note the difference in number of turns for

Sorry, That is an artifact from the original ATS-4 board. The numbering was corrected on the board for the A and B versions, but for some reason the note in the manual never got deleted as the manual was revised for the later models.

So yes, ignor the text and go by the table.

Steve KD1JV

9449. Going hiking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 14:03:18 UTC
From: Steven Weber
Topic: 9449 Message: 9449

Hi Gang,

I'll be getting on a train and heading for Glacier National Park early tomorrow morning. If all goes as planned, I will be gone for two months and hike about 900 miles along the Continental Divide Trail. I sure hope I'm ready for this, or it could be a much shorter trip, hi.

I will NOT have a rig with me. There is just too much stuff I have to have and the pack it getting a bit heavy (and full) as it is. Also, I'll be traveling with a group, but mainly, I think I'll be too tired at the end of the day to play radio. Most days all I'll want to do is eat and go to sleep.

I'll try not to fall off a cliff or get eaten by a Grizzly bear! See ya in the Fall!

Steve KD1JV

9450. RE: [AT_Sprint] Going hiking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 14:06:58 UTC
From: Dale Putnam
Topic: 9449 Message: 9450

Have a great trip Steve, enjoy the wide open spaces.. and the breath of fresh air.... things are really dry, so care is needed from that aspect. Sorry there won't be a radio.I'll wave as you ride by. I'll be the one under the hat.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Mon, 25 Jun 2012 10:03:18 -0400
Subject: [AT_Sprint] Going hiking

Hi Gang,

I'll be getting on a train and heading for Glacier National Park early

tomorrow morning. If all goes as planned, I will be gone for two months and

hike about 900 miles along the Continental Divide Trail. I sure hope I'm

ready for this, or it could be a much shorter trip, hi.

I will NOT have a rig with me. There is just too much stuff I have to have

and the pack it getting a bit heavy (and full) as it is. Also, I'll be

traveling with a group, but mainly, I think I'll be too tired at the end of

the day to play radio. Most days all I'll want to do is eat and go to sleep.

I'll try not to fall off a cliff or get eaten by a Grizzly bear! See ya in

the Fall!

Steve KD1JV

9451. Best bands for MTR??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 14:31:14 UTC
From: Bob Confrey
Topic: 9451 Message: 9451

What would be the best (most desired) bands for the MTR?? I built one for 80/40 but want to convert it to another more usable pair. I plan on selling it after the conversion....TNX...Bob...WA1EDJ....

9452. RE: [AT_Sprint] Best bands for MTR??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 14:34:38 UTC
From: Dale Putnam
Topic: 9451 Message: 9452

How about selling it custom made to the bands chosen by the buyer?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: bobc784@gmail.com
Date: Mon, 25 Jun 2012 10:31:14 -0400
Subject: [AT_Sprint] Best bands for MTR??

What would be the best (most desired) bands for the MTR?? I built

one for 80/40 but want to convert it to another

more usable pair. I plan on selling it after the

conversion....TNX...Bob...WA1EDJ....

9453. RE: [AT_Sprint] Best bands for MTR??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 14:35:53 UTC
From: Don Hinds
Topic: 9451 Message: 9453

That's kind of like asking if somebody prefers Ford or Chevy.

To me, 40/20 are the money bands. If one isn't open, the other usually is. If they are both closed due to bad conditions, then you aren't likely to find my action anywhere on HF.

But then, I like Fords.

72,
Don
WD4ON

9454. RE: [AT_Sprint] Best bands for MTR??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 14:40:19 UTC
From: jaevans@pcisys.net
Topic: 9451 Message: 9454

My vote is for 30/20 and then maybe a second rig on 40/20. My preference for 30/20 is based upon my backpacking needs. 1) Shorter antenna wires, this less weight. 2) If you are out during a contest weekend, 30 gives you some reprieve from crowded conditions.

72 - john - n0hj

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

9455. Re: [AT_Sprint] Going hiking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 14:59:25 UTC
From: wmorrill@montana.edu
Topic: 9449 Message: 9455

Steven-

Just keep an eye out for bears. Blacks will run away if you shout at them, but don't challenge a grizzly. If you have time, drop your pack, they might stop and munch on it and give you a bit more time.

Still snow on the peaks near here. Streams are high and fast due to snow melt. Flies are starting to come out. Warm weather hit us only a few days ago.

Water might look good for drinking, but giardia is common, but spores can be filtered out.

Be careful if you need to climb over deadfalls because wet logs, heavy pack, and fatigue all are factors that can result in a fall that can easily break a leg.

If you need help and somehow can call 911, they need to know how badly you are hurt, your lat/longitude, and color of your tent. Helicopters will come, but be aware that they are expensive.

I am headed to Washington state for a ride on the Snake River tomorrow, will be out of town camping and exploring frequently.

Have a safe trip, a lot of us will want to hear about your adventures.

Wendell
N7WM

> Hi Gang,
>
> I'll be getting on a train and heading for Glacier National Park early
> tomorrow morning. If all goes as planned, I will be gone for two months
> and
> hike about 900 miles along the Continental Divide Trail. I sure hope I'm
> ready for this, or it could be a much shorter trip, hi.
>
> I will NOT have a rig with me. There is just too much stuff I have to have
> and the pack it getting a bit heavy (and full) as it is. Also, I'll be
> traveling with a group, but mainly, I think I'll be too tired at the end
> of
> the day to play radio. Most days all I'll want to do is eat and go to
> sleep.
>
> I'll try not to fall off a cliff or get eaten by a Grizzly bear! See ya in
> the Fall!
>

> Steve KD1JV
>
>
>

9456. Re: [AT_Sprint] Going hiking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 15:56:33 UTC
From: ron wellman
Topic: 9449 Message: 9456

you might consider that a lightweight radio, a wire antenna and your code skills could be an important safety element on your trip. also hopefully you know about altitude issues. if not, email me. ron wellman KG6SCF

From: Steven Weber <steve.kd1jv@gmail.com>
To: AT_Sprint@yahoogroups.com
Sent: Monday, June 25, 2012 7:03 AM
Subject: [AT_Sprint] Going hiking

Hi Gang,

I'll be getting on a train and heading for Glacier National Park early tomorrow morning. If all goes as planned, I will be gone for two months and hike about 900 miles along the Continental Divide Trail. I sure hope I'm ready for this, or it could be a much shorter trip, hi.

I will NOT have a rig with me. There is just too much stuff I have to have and the pack it getting a bit heavy (and full) as it is. Also, I'll be traveling with a group, but mainly, I think I'll be too tired at the end of the day to play radio. Most days all I'll want to do is eat and go to sleep.

I'll try not to fall off a cliff or get eaten by a Grizzly bear! See ya in the Fall!

Steve KD1JV

Yahoo! Groups Links

http://docs.yahoo.com/info/terms/

9457. Re: [AT_Sprint] FS: Unbuilt MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 06:04:51 UTC
From: john dean
Topic: 9442 Message: 9457

Could you recommend a builder you could send it to for me. I could pay using paypal.

--- On Sun, 6/24/12, russellhulett <rhulett1@...> wrote:

From: russellhulett <rhulett1@...>
Subject: [AT_Sprint] FS: Unbuilt MTR
To: AT_Sprint@yahoogroups.com
Date: Sunday, June 24, 2012, 3:28 PM

After ordering, life has gotten too busy here to build it anytime soon. $110 shipped CONUS. Contact me offline if interested.

73, Curt, KB5JO

9458. Re: [AT_Sprint] Best bands for MTR??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 14:36:17 UTC
From: Wayne Dillon
Topic: 9451 Message: 9458

My own personal preference would be 40/20. Looking to buy one...
72/3 es God Bless de Wayne - KC0PMH

On Mon, Jun 25, 2012 at 9:34 AM, Dale Putnam <daleputnam@...> wrote:

>
>
> How about selling it custom made to the bands chosen by the buyer?
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: bobc784@...
> Date: Mon, 25 Jun 2012 10:31:14 -0400
> Subject: [AT_Sprint] Best bands for MTR??
>
>
> What would be the best (most desired) bands for the MTR?? I built
> one for 80/40 but want to convert it to another
> more usable pair. I plan on selling it after the
> conversion....TNX...Bob...WA1EDJ....
>
>
>
>
>

--
QRP - *EFFICIENCY AND SKILL, NOT POWER.*

I'm British by birth but American by CHOICE!

Jesus came to pay a debt He didn't owe because we owe a debt we cannot
pay...

May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
1 Jn 2:17

http://www.4sqrp.com/index.php

4 State QRP Group NCS - 40m & 160m
FPQRP #342 (Flying Pigs QRP Club)

G-QRP-C #11504
NAQCC # 0759
QRP-ARCI #11505
SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9459. Re: [AT_Sprint] A New Week and MORE fun!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 13:08:30 UTC
From: Wayne Dillon
Topic: 9447 Message: 9459

Hi Dale,
I'm assuming from your post that the "Fox Hunting" season begins this week?
72/3 es God Bless de Wayne - KC0PMH

On Mon, Jun 25, 2012 at 7:10 AM, Dale Putnam <daleputnam@...> wrote:

>
>
> Alrighty then, a new week dawns...the aches and memories of a Field Day
> gone by, and the promise of more fun...
> the Summer Season of FOXHUNTING is about to open... WHAHOOOOOO!!!!
> Are you ready?
> Ready for more fun in 90 minutes on a Thursday evening, than I can find
> anywhere else!!
> And I can find some fun now... really.
>
> Check it out.. and getter ready...
> Locked and Loaded... it's just about time..
> and none too soon, either.
> http://www.qrpfoxhunt.org/summer_rules.htm
>
> yep.. Summer Rules..... oh yeah!
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>

--
QRP - *EFFICIENCY AND SKILL, NOT POWER.*

I'm British by birth but American by CHOICE!

Jesus came to pay a debt He didn't owe because we owe a debt we cannot
pay...

May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
1 Jn 2:17

http://www.4sqrp.com/index.php

4 State QRP Group NCS - 40m & 160m
FPQRP #342 (Flying Pigs QRP Club)
G-QRP-C #11504
NAQCC # 0759
QRP-ARCI #11505
SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9460. RE: [AT_Sprint] A New Week and MORE fun!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 18:13:07 UTC
From: Dale Putnam
Topic: 9447 Message: 9460

Hi Wayne, YEP! Sure does... on 20... for the Summer.What a great way to get through the hot days of summer, but to enjoy a hot FOX hunt. every Thursday. Check it out at:http://wwwqrpfoxhunt.org

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: wayne.dillon@...
Date: Mon, 25 Jun 2012 08:08:30 -0500
Subject: Re: [AT_Sprint] A New Week and MORE fun!!

Hi Dale,I'm assuming from your post that the "Fox Hunting" season begins this week?72/3 es
God Bless de Wayne - KC0PMH

On Mon, Jun 25, 2012 at 7:10 AM, Dale Putnam <daleputnam@...> wrote:

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yep.. Summer Rules..... oh yeah!

--... ...--
Dale - WC7S in Wy

--
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SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9461. RE: [AT_Sprint] A New Week and MORE fun!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-25 18:14:38 UTC
From: Dale Putnam
Topic: 9447 Message: 9461

oopshttp://www.qrpfoxhunt.org/summer_rules.htm this one has the summer rules

--... ...--
Dale - WC7S in Wy
To: at_sprint@yahoogroups.com
From: daleputnam@...
Date: Mon, 25 Jun 2012 12:13:07 -0600
Subject: RE: [AT_Sprint] A New Week and MORE fun!!

Hi Wayne,
YEP! Sure does... on 20... for the Summer.
What a great way to get through the hot days of summer, but to
enjoy a hot FOX hunt. every Thursday.
Check it out at:
http://wwwqrpfoxhunt.org

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: wayne.dillon@gmail.com
Date: Mon, 25 Jun 2012 08:08:30 -0500
Subject: Re: [AT_Sprint] A New Week and MORE fun!!

Hi Dale,I'm assuming from your post that the "Fox Hunting" season begins this week?72/3 es
God Bless de Wayne - KC0PMH

On Mon, Jun 25, 2012 at 7:10 AM, Dale Putnam <daleputnam@...> wrote:

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--... ...--
Dale - WC7S in Wy

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QRP - EFFICIENCY AND SKILL, NOT POWER.

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QRP-ARCI #11505
SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9462. ATS-3B kit dated Sep 10 2007

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-26 03:21:15 UTC
From: wa2ohf
Topic: 9462 Message: 9462

I have been trying to figure out why this ATS-3B is dead.
I have an ats3b1 to compare to and there are a few differences on the board itself and the document I'm using to build it seems to be the correct one dated February 15th 2008
The kit date I think is sep 10th 2007

Looking On the actual board u8 pins 5,6,7 are all connected and there are traces over to U7 pins 11 and 12

This is not what the circuit diagram shows page 29 MPU/DDS TX REV 1 9/15/07 fixed CMP DES

On it, it shows U7 Pins 11 and 12 Ground and pin 16 connected to U8 pins 2,3,5,6

I'm trying to trouble shoot why the rig is locked with the wrong voltages on u7 pins 14 through 20 and correct voltages pins 1 through 13 ?

I have looked with a 30 power for solder bridges and all look ok .
Is there a place I can download the assembly manual for the 2007 printed circuit board that I have to match the circuit print to assist in troubleshooting?

Anyone have any suggestions Thanks
Arthur

NS7E

9463. Re: [AT_Sprint] ATS-3B kit dated Sep 10 2007

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-26 03:41:16 UTC
From: Dale Putnam
Topic: 9462 Message: 9463

Hi Art,
I believe I have that one in my data file, will have to find it in the morning. In the meantime, it may pay to look at the regulated voltages of 3.5 and 5, and if they are good, lift one end of L7, then apply power again, check for audio, and display. Let me know, K?
Have a great day,
Dale - WC7S

-----Original Message-----
From: wa2ohf <arthurripple@...>
Date: Tue, 26 Jun 2012 03:21:15
To: <AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] ATS-3B kit dated Sep 10 2007

I have been trying to figure out why this ATS-3B is dead.
I have an ats3b1 to compare to and there are a few differences on the board itself and the document I'm using to build it seems to be the correct one dated February 15th 2008
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I'm trying to trouble shoot why the rig is locked with the wrong voltages on u7 pins 14 through 20 and correct voltages pins 1 through 13 ?

I have looked with a 30 power for solder bridges and all look ok .
Is there a place I can download the assembly manual for the 2007 printed circuit board that I have to match the circuit print to assist in troubleshooting?

Anyone have any suggestions Thanks
Arthur

NS7E

9464. FOX HUNT Begins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-28 01:38:21 UTC
From: Dale Putnam
Topic: 9464 Message: 9464

The Summer Season of Fox Hunts starts tomorrow night, and the two Fine Foxii have made their announcements, and it is with pure anticipation of a lot of fun,I am sure. Anticipation only makes the reward that much sweeter. We finally got here, to the start. Best wishes to each of the Foxii, for a great run, tomorrow evening. They are two very good ops, and the band props princess promises to be good to us. It is a great day for a FOX Hunt!!

--... ...--
Dale - WC7S in Wyhttp://www.qrpfoxhunt.org

9465. It's TIME!! FOXHUNT time!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-29 00:57:28 UTC
From: Dale Putnam
Topic: 9465 Message: 9465

It's finally here!! I knew it would eventually get here.. and it did.
http://www.qrpfoxhunt.org

--... ...--
Dale - WC7S in Wy

9466. MTR, Giant Slayer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-29 04:15:32 UTC
From: camqrp@verizon.net
Topic: 9466 Message: 9466

Friday night before Field Day at the Zuni Loop, the antennas are up and we have some time to play radio. Keith W6SIY and I have connected the MTR to a 20 meter dipole, up about 40 feet in the pines. This is our north/south antenna so it looks down the hill, out over the Mojave Desert about 3000 feet below us. A nice perch for chasing over-the-pole DX.

After a few stateside Qs I make contact with OH1VR, Seppo, who is booming in from Finland. We decide he must be one of the long-lost Marx brothers. He gives me an RST of 589.

I'm running the MTR powered by a bundle of three used cell phone batteries. Seppo describes his station as "1500 watts to stacked yagis". Keith says I should tell him I'm running 4 watts with stacked cell phone batteries.

There sure is a lot of fun packed into this little MTR!

Cam N6GA

9467. Re: Going hiking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-29 14:11:29 UTC
From: bill_w4zv
Topic: 9449 Message: 9467

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:

> I will NOT have a rig with me. There is just too much stuff I have to have
> and the pack it getting a bit heavy (and full) as it is.

Wow I can't believe those words came from Steve's mouth! Any ATS, earbuds, SOTA tuner, a little wire and a 1200 mAh LiPO should be well under a pound total and not take much room.

I would find a way just for safety on a 900 mile hike in wilderness.

73, Bill W4ZV

9468. Re: [AT_Sprint] Re: Going hiking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-29 14:51:00 UTC
From: steve@cyakr.com
Topic: 9449 Message: 9468

obviously you don't do much backpacking! ;-) when all those ounces add up
you have to leave stuff behind that you'd prefer not to.

regarding safety, something like a Spot beacon would have less weight and
less bulk.

>
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
>> I will NOT have a rig with me. There is just too much stuff I have to
>> have
>> and the pack it getting a bit heavy (and full) as it is.
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> under a pound total and not take much room.
>
> I would find a way just for safety on a 900 mile hike in wilderness.
>
> 73, Bill W4ZV
>
>
>

9469. Re: [AT_Sprint] Re: Going hiking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-29 15:13:15 UTC
From: mstangelo@comcast.net
Topic: 9449 Message: 9469

I've been portable operator since I started in the hobby in the 1970's.

While the electronics has really shrunk in size the battery capacity is still an issue.

Steve can use the Li-Po battery but how will be recharge it? The longest hike I've been on lasted a week. I could make do with a single charged battery.

For all practical purposes I would not depend on an HF CW QRP rig for primary emergency communications. You're at the mercy of the propagation and would have to spend time rigging a decent antenna. Some CW operators are comfortable receiving basic QSO information such a the callsign and RST but may not correctly copy a detailed QTH or emergency message.

I'd take along a cell phone and one of these portable emergency position indicating radiobeacons for safety.

Mike N2MS

----- Original Message -----
From: bill_w4zv <w0zv@...>
To: AT Sprint <AT_Sprint@yahoogroups.com>
Sent: Fri, 29 Jun 2012 14:11:29 -0000 (UTC)
Subject: [AT_Sprint] Re: Going hiking

--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:

> I will NOT have a rig with me. There is just too much stuff I have to have
> and the pack it getting a bit heavy (and full) as it is.

Wow I can't believe those words came from Steve's mouth! Any ATS, earbuds, SOTA tuner, a little wire and a 1200 mAh LiPO should be well under a pound total and not take much room.

I would find a way just for safety on a 900 mile hike in wilderness.

73, Bill W4ZV

9470. Re: Going hiking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-29 19:11:58 UTC
From: bill_w4zv
Topic: 9449 Message: 9470

--- In AT_Sprint@yahoogroups.com, mstangelo@... wrote:
>
> Steve can use the Li-Po battery but how will be recharge it?

You don't...for emergency use only. In the recent Field Day I made ~30 QSOs with an ATS-3 which consumed 138 mAh according to my charger. I'd expect a 1200 mAh LiPO stored at 50% to have plenty of power after even a couple of months storage at typical mountain temperatures (typical loss at a 40% storage charge is 4% assuming 25C for 1 year...even better at cooler mountain temps).

> For all practical purposes I would not depend on an HF CW QRP rig for primary emergency communications. You're at the mercy of the propagation and would have to spend time rigging a decent antenna. Some CW operators are comfortable receiving basic QSO information such a the callsign and RST but may not correctly copy a detailed QTH or emergency message.

Geez...what a sad commentary on ham radio. Some of us actually still know how to exist without cellphones and GPS (which others in Steve's group may have anyway). When (not if) the systems behind these fail, our radios will still work. Some CW operators might fit your description, but >99% would be OK and available to take over for the other 1%.

73, Bill W4ZV

(licensed 1957, backpacking 45 years, and ready for the coming economic collapse, with or without GPS, Internet and cellphones)

9471. Re: [AT_Sprint] Re: Going hiking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-29 19:25:42 UTC
From: Dale Putnam
Topic: 9449 Message: 9471

And it will fall to us, and the little radios to pass along the real truth, the news as we witness it.
Have a great day,
Dale - WC7S

-----Original Message-----
From: bill_w4zv <w0zv@...>
Date: Fri, 29 Jun 2012 19:11:58
To: <AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] Re: Going hiking

--- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> , mstangelo@... wrote:
>
> Steve can use the Li-Po battery but how will be recharge it?

You don't...for emergency use only. In the recent Field Day I made ~30 QSOs with an ATS-3 which consumed 138 mAh according to my charger. I'd expect a 1200 mAh LiPO stored at 50% to have plenty of power after even a couple of months storage at typical mountain temperatures (typical loss at a 40% storage charge is 4% assuming 25C for 1 year...even better at cooler mountain temps).

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73, Bill W4ZV

(licensed 1957, backpacking 45 years, and ready for the coming economic collapse, with or without GPS, Internet and cellphones)

9472. Re: Going hiking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-29 20:19:23 UTC
From: cloud runner
Topic: 9449 Message: 9472

Our entire W5YA field day group gathered around the little LiPO powered K2 Friday night to copy the official Field Day bulletin. Only the GOTA operator missed a single letter.

73, Fred - kt5x

"not on the runway..."

> For all practical purposes I would not depend on an HF CW QRP rig for primary emergency communications. You're at the mercy of the propagation and would have to spend time rigging a decent antenna. Some CW operators are comfortable receiving basic QSO information such a the callsign and RST but may not correctly copy a detailed QTH or emergency message.
.

9473. Re: Going hiking and battery life.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-30 15:30:02 UTC
From: Dennis
Topic: 9449 Message: 9473

Regarding the battery comment Mike:
My sympathies are with Steve, every ounce is a serious judgement call. I carry the radio for the enjoyment factor, but as noted, it could be a lifesaver.
I used six disposable Lithium AA batteries on the AT and only had to replace them once, they last forever. This is using an ATS-3A of course, your mileage may vary. I made a really nifty carrying case for them by using an Altoids tin. You can see the photo at:
http://groups.yahoo.com/group/QRPme_Kits/photos/album/342018751/pic/list
<http://groups.yahoo.com/group/QRPme_Kits/photos/album/342018751/pic/lis\
t>
(Hopefully the link displays correctly, if not you can see them at the QRPME Yahoo Group, look for the K1YPP photo album).
On a recent hike of the Camino de Santiago, in Spain, I used one set of batteries for the whole 500 mile hike and am still using the same batteries. They may seem more expensive than other batteries, but, as advertised, they do last 7-8 times as long (truly!) and if that is factored in, means they really are less expensive.
Charging is never an issue with these. Additionally, they are super light and the Bunny never seems to tire. If they ever did go dead, one could, as a temporary measure, use standard alkalines until replacement can be obtained.
Dennis, K1YPP
Author of: Three Hundred Zeroeshttp://tinyurl.com/248ymjg
--- In AT_Sprint@yahoogroups.com, mstangelo@... wrote:
>
> I've been portable operator since I started in the hobby in the 1970's.
>
> While the electronics has really shrunk in size the battery capacity is still an issue.
>
> Steve can use the Li-Po battery but how will be recharge it? The longest hike I've been on lasted a week. I could make do with a single charged battery.
...
> I would find a way just for safety on a 900 mile hike in wilderness.
>
> 73, Bill W4ZV
>

9474. Troubleshooting ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-06-30 19:39:38 UTC
From: andrew.cross
Topic: 9474 Message: 9474

Hello

I've finally gotten around to finishing the ATS4B over the past weeks or so and connected a 9V battery to it this morning. I've taken my time with this build and been as conscientious as possible so I have to admit that expectations were high for a working rig...but, no such luck I'm afraid, and it looks as though I am going to need to follow every step Steve has laid out in the manual, including the troubleshooting ones HI HI!

I don't have a lot of experience troubleshooting circuits, so I would be extremely grateful if I could get some help here.

Tests show the following:
On power up (9V batt at approx 7V charge) - the LCD screen lights up and stays lit, but no information appears on the screen - even if I hit the ON button, or even if I press and hold the FN button to 'turn it off'.
So, something is happening, which is encouraging. I hope its ok to post my measurements here directly, but I'm hoping that the info will assist in solving the issue - I've posted them below this message.

These are just the measurements I thought might help, and of course I can take and report others if needed.

Any or all help is appreciated to help in getting this radio working and on the air.

Many thanks
Andrew
F/M0ONZ

Using a DVM I have measured the following chips and their pins and came up with the following:
L25 - 3.3 (on both sides)
R26 0.41

U9
1 - 3.3
2 - 0
3 - 1.70
4 - 3.3

U7
1 - 1.12
2 - 1.17
3 - 1.75
4 - 3.3
5 - 3.3
6 - 2.41
7 - 0

8 - 1.75
9 - 0
10 - 0
13 - 0
14 - 3.3
15 - 0
16 - 0
17 - 0.41
19 - 0.41
20 - 0.8

U10
1 - 0
2 - 3.3
3 - 0
4 - 0
5 - 2.15
6 - 0.7
7 - 3.16
15 - 0
16 - 0
17 - 3.16
18 - 3.16
19 - 0.75
20 - 0
21 - 0
22 - 3.3
23 - 2.8
24 - 3.3
25 - 0
26 - 3.3
27 - 3.3
28 - 3.3

9475. MTR S/N 67 Alive

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-02 00:09:09 UTC
From: Eric Castro (VA3AMX)
Topic: 9475 Message: 9475

Hi

MTR s/n:067 alive. Born July 1st 2012 - Happy Canada Day!
Initial checking and operation looks good. Now I will check everything once again and perform the calibration and adjustments.

To make this memorable, if everything goes well, I will target the first QSO on July 4th!
I am sure I will not forget the dates!!

Happy Canada Day and Happy July 4th to all my friends in US!!

72/73
Eric - VA3AMX

9476. AT Sprint QSO party

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-02 13:23:31 UTC
From: Dale Putnam
Topic: 9476 Message: 9476

Looking ahead, and checking this months fun, I had to write in Saturday July 21 for the:
http://ats-sprint.blogspot.com/
a fun time to be had by all... ATs. I'll be looking for YOU!!
--... ...--
Dale - WC7S in Wy

9477. Re: [AT_Sprint] AT Sprint QSO party

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-02 13:28:15 UTC
From: Peter Martin
Topic: 9476 Message: 9477

On Mon, Jul 2, 2012 at 2:23 PM, Dale Putnam <daleputnam@...> wrote:

>
>
> Looking ahead, and checking this months fun, I had to write in Saturday
> July 21 for the:
>
> http://ats-sprint.blogspot.com/
>
> a fun time to be had by all... ATs.
> I'll be looking for YOU!!
>
> --... ...-- Dale - WC7S in Wy
>
>
Dale, the *Super Bonus*: 500 points for working KD1JV, is going to be hard
if he's off walking without a rig!

Pete
G4ISJ
ATS4 and MTR

9478. RE: [AT_Sprint] AT Sprint QSO party

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-02 13:35:18 UTC
From: Dale Putnam
Topic: 9476 Message: 9478

YES!! I am disappointed.. I'm hoping that somehow that changes.. maybe he'll surprise us?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: paradoxpete.pdm@...
Date: Mon, 2 Jul 2012 14:28:15 +0100
Subject: Re: [AT_Sprint] AT Sprint QSO party

On Mon, Jul 2, 2012 at 2:23 PM, Dale Putnam <daleputnam@...> wrote:

Looking ahead, and checking this months fun, I had to write in Saturday July 21 for the:

http://ats-sprint.blogspot.com/

a fun time to be had by all... ATs.

I'll be looking for YOU!!

--... ...--
Dale - WC7S in Wy

Dale, the Super Bonus: 500 points for working KD1JV, is going to be hard if he's off walking without a rig!

Pete
G4ISJ
ATS4 and MTR

9479. Re: [AT_Sprint] AT Sprint QSO party

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-03 04:23:07 UTC
From: Lew Paceley
Topic: 9476 Message: 9479

If Steve is anywhere near a road I can drive my 4 wheel drive truck on in the next couple weeks I'd be happy to meet him and let him use my oh-so-classic ATS2 for the Sprint. I'll even put fresh batteries in it. ;)

Heck, I'd even backpack it in a four or five miles if need be.

Steve, if by some miracle of technology you can read this and want me to meet you please let me know via return e-mail.

72,
Lew
K7GO

On Mon, Jul 2, 2012 at 7:35 AM, Dale Putnam <daleputnam@...> wrote:

>
>
> YES!! I am disappointed.. I'm hoping that somehow that changes..
> maybe he'll surprise us?
>
>
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: paradoxpete.pdm@...
> Date: Mon, 2 Jul 2012 14:28:15 +0100
> Subject: Re: [AT_Sprint] AT Sprint QSO party
>
>
>
> On Mon, Jul 2, 2012 at 2:23 PM, Dale Putnam <daleputnam@...>wrote:
>
>
>
> Looking ahead, and checking this months fun, I had to write in Saturday
> July 21 for the:
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> http://ats-sprint.blogspot.com/
>
> a fun time to be had by all... ATs.
> I'll be looking for YOU!!
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> --... ...-- Dale - WC7S in Wy
>

>
> Dale, the *Super Bonus*: 500 points for working KD1JV, is going to be
> hard if he's off walking without a rig!
>
> Pete
> G4ISJ
> ATS4 and MTR
>
>
>
>
>
>

9480. Re: AT Sprint QSO party

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-03 16:32:30 UTC
From: Philip L. Graitcer
Topic: 9476 Message: 9480

Only thing that disappoints me is that this is an evening event. I was hoping to be able to hike and set up somewhere under a tree with my ATS3b1 and MTR and operate. An evening sprint may require camping or operating from home QTH.

Any possibility to change time to an afternoon event?

Phil, W3HZZ

9481. Re: MTR S/N 67 Alive

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-03 16:55:44 UTC
From: VA3AMX
Topic: 9475 Message: 9481

Hello folks,

Could not wait until tomorrow to start making QSOs with my MTR. I connected everything temporally yesterday night and fire it on the air on 20m.
- 1st QSO with AA3B who gave me 579 from PA
- 2nd QSO with SP5INQ who gave me 429!

The audio output is too soft for me. I have hearing loss so I will have to manage to have some amplification later.
I tried different earphones and they really make difference so for now I am good with an old one from apple.

Hope to see you in the air soon ...

72/73
Eric - VA3AMX

9482. Ear Bud Sensitivity

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-03 18:45:52 UTC
From: WA0ITP
Topic: 7686 Message: 9482

Ga Eric,

Ear bud sensitivity has been discussed occasionally on the list, and it's important. On the Ft Tuthill Yahoo Group Dan Tayloe, N7VE clarified ear bud sensitivity specs for us. The actual spec should xxx dB SPL/1mW. Most mfr don't include the whole callout, saying only xx dB, trying to make them appear more sensitive that they really are. The most sensitive that I've found are 112 dB SPL/1mW

I use both the Koss' "Plug" and their "Pathfinder"
Impedance 16 ohms
Sensitivity 112 dB SPL/1mW
Good sensitivity, much better than nearly all earbuds I've tried.
They perform very well and are comfortable.

Hope this helps

I love this radio stuff !
72, 73 Terry, WA?ITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "Eric Castro (VA3AMX)" <va3amx@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Tuesday, July 03, 2012 11:55 AM
Subject: [AT_Sprint] Re: MTR S/N 67 Alive

| Hello folks,
|
| Could not wait until tomorrow to start making QSOs with my MTR. I connected everything temporally yesterday night and fire it on the air on 20m.
| - 1st QSO with AA3B who gave me 579 from PA
| - 2nd QSO with SP5INQ who gave me 429!
|
| The audio output is too soft for me. I have hearing loss so I will have to manage to have some amplification later.
| I tried different earphones and they really make difference so for now I am good with an old one from apple.
|
| Hope to see you in the air soon ...
|
| 72/73

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| Eric - VA3AMX
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| Yahoo! Groups Links
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9483. Steve Weber hike

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-04 00:48:33 UTC
From: wmorrill@montana.edu
Topic: 9476 Message: 9483

Maybe someone is somehow in contact with Steve. If he needs help, they could relay information to me.
I offerred to bring supplies to Steve when he gets to Homestake Pass east of Butte, about a one hour drive for me. His response was that it would be difficult to schedule a meeting.
Lots of fires right now near here, but nothing appears to be in the area where Steve might be.
He has my phone number if he needs help and is able to call. He has a friend in West Yellowstone who also might help if needed. I have this person's name and phone number. I am guessing that Steve wants to be left alone, and would like avoid radio stuff for a while.
Anyway, I am here if needed. Home phone 406 five eight six 4209.
Wendell Morrill
N7WM

> If Steve is anywhere near a road I can drive my 4 wheel drive truck on in
> the next couple weeks I'd be happy to meet him and let him use my
> oh-so-classic ATS2 for the Sprint. I'll even put fresh batteries in it.
> ;)
>
> Heck, I'd even backpack it in a four or five miles if need be.
>
> Steve, if by some miracle of technology you can read this and want me to
> meet you please let me know via return e-mail.
>
> 72,
> *Lew*
> K7GO
>
> On Mon, Jul 2, 2012 at 7:35 AM, Dale Putnam <daleputnam@...>
> wrote:
>
>>
>>
>> YES!! I am disappointed.. I'm hoping that somehow that changes..
>> maybe he'll surprise us?
>>
>>
>>
>> --... ...-- Dale - WC7S in Wy
>>
>> ----------
>> To: AT_Sprint@yahoogroups.com
>> From: paradoxpete.pdm@...
>> Date: Mon, 2 Jul 2012 14:28:15 +0100

>> Subject: Re: [AT_Sprint] AT Sprint QSO party
>>
>>
>>
>> On Mon, Jul 2, 2012 at 2:23 PM, Dale Putnam
>> <daleputnam@...>wrote:
>>
>>
>>
>> Looking ahead, and checking this months fun, I had to write in Saturday
>> July 21 for the:
>>
>> http://ats-sprint.blogspot.com/
>>
>> a fun time to be had by all... ATs.
>> I'll be looking for YOU!!
>>
>> --... ...-- Dale - WC7S in Wy
>>
>>
>> Dale, the *Super Bonus*: 500 points for working KD1JV, is going to be
>> hard if he's off walking without a rig!
>>
>> Pete
>> G4ISJ
>> ATS4 and MTR
>>
>>
>>
>>
>>
>>
>

9484. Re: [AT_Sprint] Ear Bud Sensitivity

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-04 02:31:47 UTC
From: David Karpiej
Topic: 7686 Message: 9484

Eric,
I too have noticible hearing loss and have built andam using MTR 119 for the pas few months. I wondered it the low audio was due to a wrong compoment walue but the QSO's kept coming in. Finaly on Field Day I added an amplified speaker and what a difference it made! I will be using it from FN44 in VT in the AT Sprint and hope to work you. I could not belive the receiver selectivity in a contest situation for a $100 dollar rig. Steve is just a great designer. BTW a visit to my doctor confirmed the loss was not in the rig,
73,
Dave K1THP

From: WA0ITP <wa0itp@...>
To: AT_Sprint@yahoogroups.com
Sent: Tue, July 3, 2012 2:45:52 PM
Subject: [AT_Sprint] Ear Bud Sensitivity

Ga Eric,

Ear bud sensitivity has been discussed occasionally on the list, and it's important. On the Ft Tuthill Yahoo Group Dan Tayloe, N7VE clarified ear bud sensitivity specs for us. The actual spec should xxx dB SPL/1mW. Most mfr don't include the whole callout, saying only xx dB, trying to make them appear more sensitive that they really are. The most sensitive that I've found are 112 dB SPL/1mW

I use both the Koss' "Plug" and their "Pathfinder"
Impedance 16 ohms
Sensitivity 112 dB SPL/1mW
Good sensitivity, much better than nearly all earbuds I've tried.
They perform very well and are comfortable.

Hope this helps

I love this radio stuff !
72, 73 Terry, WAØITP
wa0itp@...
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "Eric Castro (VA3AMX)" <va3amx@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Tuesday, July 03, 2012 11:55 AM
Subject: [AT_Sprint] Re: MTR S/N 67 Alive

| Hello folks,
|
| Could not wait until tomorrow to start making QSOs with my MTR. I connected everything temporally yesterday night and fire it on the air on 20m.
| - 1st QSO with AA3B who gave me 579 from PA
| - 2nd QSO with SP5INQ who gave me 429!
|
| The audio output is too soft for me. I have hearing loss so I will have to manage to have some amplification later.
| I tried different earphones and they really make difference so for now I am good with an old one from apple.
|
| Hope to see you in the air soon ...
|
| 72/73
| Eric - VA3AMX
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| Yahoo! Groups Links
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Yahoo! Groups Links

http://docs.yahoo.com/info/terms/

9485. Re: AT Sprint QSO party

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-04 03:16:42 UTC
From: n8xxham
Topic: 9476 Message: 9485

The only thing I'd prefer was to have multipliers by band.

I'll try to be on during the event on 40 & 20, which are the two of the three bands which are covered by the original AT-Sprint.

72/73 de n8xx Hg

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Looking ahead, and checking this months fun, I had to write in Saturday July 21 for the:
http://ats-sprint.blogspot.com/
a fun time to be had by all... ATs. I'll be looking for YOU!!
> --... ...--
> Dale - WC7S in Wy
>

9486. RE: [AT_Sprint] Re: AT Sprint QSO party

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-04 03:38:59 UTC
From: Dale Putnam
Topic: 9476 Message: 9486

Good point, I'm not promising, but that would be a good thing for the next time out to try. Maybe add it for at least one time. BTW I'll be looking for you... oh.. and on the FoxHunt Thurs night too.. on 20.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: n8xx@...
Date: Wed, 4 Jul 2012 03:16:42 +0000
Subject: [AT_Sprint] Re: AT Sprint QSO party

The only thing I'd prefer was to have multipliers by band.

I'll try to be on during the event on 40 & 20, which are the two of the three bands which are covered by the original AT-Sprint.

72/73 de n8xx Hg

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

>

> Looking ahead, and checking this months fun, I had to write in Saturday July 21 for the: http://ats-sprint.blogspot.com/

a fun time to be had by all... ATs. I'll be looking for YOU!!

> --... ...--

> Dale - WC7S in Wy

>

9487. Re: [AT_Sprint] Ear Bud Sensitivity

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-04 19:16:53 UTC
From: Eric Castro (VA3AMX)
Topic: 7686 Message: 9487

Dave and Terry - thanks for the comments.

Yes I remember the discussion about sensitivity specs a while ago and that's why I was trying different earphones. I just had no idea of how much was :)
I will try different earphones and phones to see which one will be more comfortable to me.

72/73
Eric - VA3AMX

9488. FOXHUNT !!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-05 01:32:14 UTC
From: Dale Putnam
Topic: 9488 Message: 9488

For the second week, the FOXHUNT is up for fun. AB9CA and I (WC7S) will be your FOXii for the evening.
14.060 plus or minus 10... and 0100z or on7pm MT ... We will be exchanging information including Signal Report
- QTH
- Operator's Name, and
- Power Output I'll be using a Hendricks KD1JV design Tri-bander, with a 100 ft center balanced fed doublet at 50ft. IF the band drops out and I need to change to the long antennnas, I will. The plan is to WAS with the Tri-Bander this season, I am also planning to use a puter logger, to assist with keeping the calls straight. Not that that is a garuntee.. but may be worth an effort. I will be tuning with RIT, around the edges of the pack, using the analog filter from Elecraft if I have to. So spread out and lets do it!! CQ FOX up.. dwn.. or nothing.. listen close. Good Luck!!

--... ...--
Dale - WC7S in Wy

9489. RE: [QRP-L] FOXHUNT !!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-05 04:39:13 UTC
From: Dale Putnam
Topic: 9488 Message: 9489

My apologies, I failed to include that this FOXHUNT is happening THURSDAY evening.I'll be listening for you!

--... ...--
Dale - WC7S in Wyhttp://www.qrpfoxhunt.org
> From: daleputnam@...
> To: qfox@...m; qrp-l@...; at_sprint@yahoogroups.com; pfr3_group@yahoogroups.com
> Date: Wed, 4 Jul 2012 19:32:14 -0600
> Subject: [QRP-L] FOXHUNT !!!!
>
>
>
>
>
> For the second week, the FOXHUNT is up for fun. AB9CA and I (WC7S) will be your FOXii for the evening.
> 14.060 plus or minus 10... and 0100z or on7pm MT ... We will be exchanging information including Signal Report
> - QTH
> - Operator's Name, and
> - Power Output I'll be using a Hendricks KD1JV design Tri-bander, with a 100 ft center balanced fed doublet at 50ft. IF the band drops out and I need to change to the long antennnas, I will. The plan is to WAS with the Tri-Bander this season, I am also planning to use a puter logger, to assist with keeping the calls straight. Not that that is a garuntee.. but may be worth an effort. I will be tuning with RIT, around the edges of the pack, using the analog filter from Elecraft if I have to. So spread out and lets do it!! CQ FOX up.. dwn.. or nothing.. listen close. Good Luck!!
>
> --... ...--
> Dale - WC7S in Wy
>
>
> _____
> QRP-L mailing list
> Home: http://mailman.qth.net/mailman/listinfo/qrp-l
> Help: http://mailman.qth.net/mmfaq.htm
> Post: mailto:QRP-L@mailman.qth.net
>
> This list hosted by: http://www.qsl.net
> Please help support this email list: http://www.qsl.net/donate.html

9490. Camp out in MO.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-06 02:41:00 UTC
From: Johnny Matlock
Topic: 9490 Message: 9490

Hey guys:
Our family will be camping for a float trip this week end in NOEL MO.
I am planning on taking my ATS 4 and a Bert's Magic end fed, and see
what kind of qso's I can drum up!
We are arriving Friday night, and after camp setup I hope to be on the
air on 40 M.
I will try to post on QRPSPOTS.COM If we have internet connections.
If not I will be calling cq near the 7.122 freq
Come by and say hello.
Hope to work a bunch.
72, 73
Johnny AC0BQ

9491. ats-3b 2007 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-06 05:30:14 UTC
From: Arthur Ripple
Topic: 9491 Message: 9491

Dale ,
Good news I lifted the collector of Q5 and It came alive
so it has to be a bad u12 chip hi current protection circuit
Would you have a new u12 it has 108 on it ?

9492. ats-3b 2007 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-06 05:31:07 UTC
From: Arthur Ripple
Topic: 9491 Message: 9492

Dale ,

Good news I lifted the collector of Q5 and It came alive

so it has to be a bad u12 chip hi current protection circuit
Would you have a new u12 it has 108 on it ?

Arthur NS7E

9493. Re: [QRP-L] FOXHUNT !!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-06 05:32:57 UTC
From: wa2ohf
Topic: 9488 Message: 9493

Dale ,

Good news I lifted the collector of Q5 and It came alive

so it has to be a bad u12 chip hi current protection circuit

Would you have a new u12 it has 108 on it ?

Arthur NS7E

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> My apologies, I failed to include that this FOXHUNT is happening THURSDAY evening.I'll be listening for you!
>
> --... ...--
> Dale - WC7S in Wyhttp://www.qrpfoxhunt.org
> > From: daleputnam@...
> > To: qfox@yahoogroups.com; qrp-l@...; at_sprint@yahoogroups.com; pfr3_group@yahoogroups.com
> > Date: Wed, 4 Jul 2012 19:32:14 -0600
> > Subject: [QRP-L] FOXHUNT !!!!
> >
> >
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> >
> >
> > For the second week, the FOXHUNT is up for fun. AB9CA and I (WC7S) will be your FOXii for the evening.
> > 14.060 plus or minus 10... and 0100z or on7pm MT ... We will be exchanging information including Signal Report
> > - QTH
> > - Operator's Name, and
> > - Power Output I'll be using a Hendricks KD1JV design Tri-bander, with a 100 ft center balanced fed doublet at 50ft. IF the band drops out and I need to change to the long antennnas, I will. The plan is to WAS with the Tri-Bander this season, I am also planning to use a puter logger, to assist with keeping the calls straight. Not that that is a garuntee.. but may be worth an effort. I will be tuning with RIT, around the edges of the pack, using the analog filter from Elecraft if I have to. So spread out and lets do it!! CQ FOX up.. dwn.. or nothing.. listen close. Good Luck!!
> >
> > --... ...--
> > Dale - WC7S in Wy
> >
> >

> > _____
> > QRP-L mailing list
> > Home: http://mailman.qth.net/mailman/listinfo/qrp-l
> > Help: http://mailman.qth.net/mmfaq.htm
> > Post: mailto:QRP-L@...
> >
> > This list hosted by: http://www.qsl.net
> > Please help support this email list: http://www.qsl.net/donate.html
>

9494. RE: [AT_Sprint] Re: [QRP-L] FOXHUNT !!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-06 12:58:15 UTC
From: Dale Putnam
Topic: 9488 Message: 9494

I bet I do, look in the parts list, and give me the whole part number please?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: arthurripple@...
Date: Fri, 6 Jul 2012 05:32:57 +0000
Subject: [AT_Sprint] Re: [QRP-L] FOXHUNT !!!!

Dale ,

Good news I lifted the collector of Q5 and It came alive

so it has to be a bad u12 chip hi current protection circuit

Would you have a new u12 it has 108 on it ?

Arthur NS7E

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

>

> My apologies, I failed to include that this FOXHUNT is happening THURSDAY evening.I'll be listening for you!

>

> --... ...--

> Dale - WC7S in Wyhttp://www.qrpfoxhunt.org

> > From: daleputnam@...

> > To: qfox@yahoogroups.com; qrp-l@...; at_sprint@yahoogroups.com; pfr3_group@yahoogroups.com

> > Date: Wed, 4 Jul 2012 19:32:14 -0600

> > Subject: [QRP-L] FOXHUNT !!!!

> >

> >

> >

> >

> >

> > For the second week, the FOXHUNT is up for fun. AB9CA and I (WC7S) will be your FOXii for the evening.

> > 14.060 plus or minus 10... and 0100z or on7pm MT ... We will be exchanging information including Signal Report

> > - QTH

> > - Operator's Name, and

> > - Power Output I'll be using a Hendricks KD1JV design Tri-bander, with a 100 ft center balanced fed doublet at 50ft. IF the band drops out and I need to change to the long antennnas, I will. The plan is to WAS with the Tri-Bander this season, I am also planning to use a puter logger, to assist with keeping the calls straight. Not that that is a garuntee.. but may be worth an effort. I will be tuning with RIT, around the edges of the pack, using the analog filter from Elecraft if I have to. So spread out and lets do it!! CQ FOX up.. dwn.. or nothing.. listen close. Good Luck!!

> >

> > --... ...--

> > Dale - WC7S in Wy

> >

> >

> > _____

> > QRP-L mailing list

> > Home: http://mailman.qth.net/mailman/listinfo/qrp-l

> > Help: http://mailman.qth.net/mmfaq.htm

> > Post: mailto:QRP-L@...

> >

> > This list hosted by: http://www.qsl.net

> > Please help support this email list: http://www.qsl.net/donate.html

>

9495. RE: [AT_Sprint] ats-3b 2007 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-06 13:31:14 UTC
From: Dale Putnam
Topic: 9491 Message: 9495

Hi Arthur, I found the listing. It is
ZXCT7008F “108” Orange, SOT-3 I'll check to see, let you know in a bit.But something is bugging me.... with the power off... lift one end of L7, and check with an ohm meter, to ground, the two pads that L7 connects to. Then before restoring L7, can you restore the collector of Q5? That protection circuit is pretty rock hard, I've not had one fail. However, I have been very convinced that it had, only to find a short.... and the protection circuit was adamit about not letting the magic smoke leak out.
--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: arthurripple@...
Date: Fri, 6 Jul 2012 00:30:14 -0500
Subject: [AT_Sprint] ats-3b 2007 kit

Dale ,Good news I lifted the collector of Q5 and It came alive so it has to be a bad u12 chip hi current protection circuit Would you have a new u12 it has 108 on it ?

9496. ATS-3B Kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-07 14:40:34 UTC
From: wa2ohf
Topic: 9496 Message: 9496

Anyone have a un-built kit around they want to get rid of
Or one un-finished kit I need (want) another project
Biilt three now and would love to do another .
Please contact me at arthurripple@... or 952-758-2421

Thanks Arthur NS7E

9497. Re: ats-3b 2007 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-07 14:52:37 UTC
From: wa2ohf
Topic: 9491 Message: 9497

Well Thanks Dale,
Im prity sure it is a bad ZXCT1008f due to finding a loose connection on R48 (r100) ristor causing the full load to be carried by the zx1008 chip
Arthur NS7E

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Hi Arthur, I found the listing. It is
> ZXCT7008F "108" Orange, SOT-3 I'll check to see, let you know in a bit.But something is bugging me.... with the power off... lift one end of L7, and check with an ohm meter, to ground, the two pads that L7 connects to. Then before restoring L7, can you restore the collector of Q5? That protection circuit is pretty rock hard, I've not had one fail. However, I have been very convinced that it had, only to find a short.... and the protection circuit was adamit about not letting the magic smoke leak out.
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: arthurripple@...
> Date: Fri, 6 Jul 2012 00:30:14 -0500
> Subject: [AT_Sprint] ats-3b 2007 kit
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> Dale ,Good news I lifted the collector of Q5 and It came alive so it has to be a bad u12 chip hi current protection circuit Would you have a new u12 it has 108 on it ?
>

9498. RE: [AT_Sprint] Re: ats-3b 2007 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-07 15:16:12 UTC
From: Dale Putnam
Topic: 9491 Message: 9498

Yep, you're right... it can't handle that, Arthur.Good luck, Have a great day,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: arthurripple@...
Date: Sat, 7 Jul 2012 14:52:37 +0000
Subject: [AT_Sprint] Re: ats-3b 2007 kit

Well Thanks Dale,

Im prity sure it is a bad ZXCT1008f due to finding a loose connection on R48 (r100) ristor causing the full load to be carried by the zx1008 chip

Arthur NS7E

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

>

> Hi Arthur, I found the listing. It is

> ZXCT7008F "108" Orange, SOT-3 I'll check to see, let you know in a bit.But something is bugging me.... with the power off... lift one end of L7, and check with an ohm meter, to ground, the two pads that L7 connects to. Then before restoring L7, can you restore the collector of Q5? That protection circuit is pretty rock hard, I've not had one fail. However, I have been very convinced that it had, only to find a short.... and the protection circuit was adamit about not letting the magic smoke leak out.

> --... ...--

> Dale - WC7S in Wy

> To: AT_Sprint@yahoogroups.com

> From: arthurripple@...

> Date: Fri, 6 Jul 2012 00:30:14 -0500

> Subject: [AT_Sprint] ats-3b 2007 kit

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> Dale ,Good news I lifted the collector of Q5 and It came alive so it has to be a bad u12 chip hi current protection circuit Would you have a new u12 it has 108 on it ?

>

9499. AT-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-07 16:43:05 UTC
From: Dale Putnam
Topic: 9499 Message: 9499

Come join us for a QSO Party devoted to KD1JV's marvel Appalachian Trail Sprint transceivers.

Whether you're running an original ATS or the latest MTR,
or even if you're not running one of Steve's rigs, you're welcome to join us on July 22, 2012 from 0000 to 0300Z. click here for rules:
http://ats-sprint.blogspot.com/p/rules.html

--... ...--
Dale - WC7S in Wy

9500. Original ATS-3 Power Output

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-07 20:52:13 UTC
From: bill_w4zv
Topic: 9500 Message: 9500

I have the original ATS-3 (not 3A or 3B) built in 2005. Since then I got an LP-100A Wattmeter which allows accurate QRP measurements. I've tried tweaking the turns on L1 and L2 but cannot seem to get more than <4 Watts at 12VDC. I've searched the list archives but the comments, files, etc pertain to the 3A or 3B. I've looked over KX0R's files and notice his L and C values for the ATS-3A are fairly close to those for the ATS-3. Does anyone know if the values for the ATS-3A will also work for the original?

TU & 73!

Bill W4ZV

9501. Popping sound in phones

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-09 01:02:11 UTC
From: Bob Flye
Topic: 9501 Message: 9501

Greetings all,
MTR S/N 30 has been on the air, but have noticed something interesting that I hope someone has insight to. If I am tuned to a strong station, there is an intermittent (10-15 seconds) popping sound in my earbuds. When listening to a weaker station, or simply band noise, I may hear a pop every once in a while, or not at all. Thoughts?

72/73
Bob, AD7BP http://eggsandhamradio.blogspot.com/

"You are boldly going where no man knows what he is doing" -Maarten Schmidt, Palomar astronomer-

9502. AT Sprint radios / QBSA on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-09 12:46:03 UTC
From: John Shadle
Topic: 9502 Message: 9502

Not sure if anyone saw this (probably not, since the bids are so low), but there's an auction up on eBay now (ends in 4 hours) for an ATS-3, ATS-3A, and a QBSA.

http://item.ebay.com/320938720336

I'm in no way affiliated with the person selling this, but thought others who want to get their hands on one of these would be interested. Right now the bidding is at $71 for all three. A veritable steal. I'd bid, but I've got too many unbuilt kits in the basement as it is.

73
-john W4PAH
Madison, WI

9503. Re: [AT_Sprint] AT Sprint radios / QBSA on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-09 14:09:55 UTC
From: Scott Zastoupil
Topic: 9502 Message: 9503

I'd be leery of those ATS's. It appears a low quality of solder was used with a lot of yellow flux residue. Solder quality also appears poor at best. I suppose it could be a "fun" touchup/refurb project though.

Scott, KB0KFX

From: John Shadle <shadle@...>
To: at_sprint <AT_Sprint@yahoogroups.com>
Sent: Monday, July 9, 2012 7:46 AM
Subject: [AT_Sprint] AT Sprint radios / QBSA on eBay

Not sure if anyone saw this (probably not, since the bids are so low), but there's an auction up on eBay now (ends in 4 hours) for an ATS-3, ATS-3A, and a QBSA.

http://item.ebay.com/320938720336

I'm in no way affiliated with the person selling this, but thought others who want to get their hands on one of these would be interested. Right now the bidding is at $71 for all three. A veritable steal. I'd bid, but I've got too many unbuilt kits in the basement as it is.

73
-john W4PAH
Madison, WI

9504. Re: [AT_Sprint] Popping sound in phones

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-09 14:17:59 UTC
From: Scott Zastoupil
Topic: 9501 Message: 9504

Hi Bob. I throw a couple of random thoughts out there.

Do you experience this only at home? If you can, see if it still happens in one of your remote lunchtime radio excursions. Do something to rule out it's not anything in your house like an ac relay from HVAC, fridge, etc.

Charge build up on the antenna? If you're using a tuner that is DC isolated, maybe there is enough charge for it to build up and arc over somewhere. Maybe a 100k+ bleeder resistor on the antenna side for a before/after comparison.

It could be something in the radio design (haven't studied this enough to give suggestions) or grounding/floating setup. With the 10-15 popping rate, it seems like a slow buildup with a long time constant and have a hard time envision it being caused in the radio.

Scott, KB0KFX

From: Bob Flye <swlandham@...>
To: AT_Sprint@yahoogroups.com
Sent: Sunday, July 8, 2012 8:02 PM
Subject: [AT_Sprint] Popping sound in phones

Greetings all,
MTR S/N 30 has been on the air, but have noticed something interesting that I hope someone has insight to. If I am tuned to a strong station, there is an intermittent (10-15 seconds) popping sound in my earbuds. When listening to a weaker station, or simply band noise, I may hear a pop every once in a while, or not at all. Thoughts?

72/73
Bob, AD7BP http://eggsandhamradio.blogspot.com/

"You are boldly going where no man knows what he is doing" -Maarten Schmidt, Palomar astronomer-

9505. Experience with fried output transistors?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-09 14:21:03 UTC
From: pgschreier
Topic: 9505 Message: 9505

During my last few SOTAs, I've been getting poor signal reports. I came home and measured my ATS-4 output, and running from 12.3V it's 1.70V p-p (= approx 0.6W) out instead of the 5+W I used to get.

I strongly suspect I fried the output transistors due to excessively high SWR (don't ask...).

Two questions:
1. I'm still getting 0.6W out -- so what's going on? Does this mean I'm running "barefoot", that is, the output stage is shorted out and the oscillator output is going to the antenna? (Amazingly, when I'm running a SOTA, those chasers have amazingly good ears -- I'm still getting 30+ QSOs from a summit.)

2. From those of you who might have had a similar experience, do I need to replace only the three MOSFETs, or do I have to replace additional components, as well?

thx, 73
Paul HB9DST

9506. I've got the MTR blues

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-09 04:46:46 UTC
From: jhg40earthlinknet
Topic: 9506 Message: 9506

I've been trying to get my MTR to work for the last month and a half or so.

On inital power up there was a loud hum in the headphones. Ultimately it blew R26. I believe the cuase was I had failed to make sure the band switches were all on one band. I replaced R26 and Q4.

Everyting seemed to work okay, but the rig lacked sensitivity. I could hear my other QRP transmitting into a Dummy load and I could peak the capacitors, but the rig will not pick up any 'on air' signals.

In trying to trouble shoot it I"ve lost the functionality of all the buttons except Tune Up.

Voltages on ICs are okay with the exception of the MPU. All voltages there are okay with the exception of P5 and P6 where I get 0 and .5v respectively vs. the correct of 2.7v and 1.7v. Sorry to say I've not been able to figure out why or how to fix it.

Any suggestions?

Any MTR techs for hire out there? (last step before I take it out and shoot it :) ?

One nice thing, A short lead on pin 8 of U2 and I get AM 940 and an adjacent am station quite nicely!

Thanks
Johh
WB6HVH

9507. RE: [AT_Sprint] Experience with fried output transistors?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-09 16:14:03 UTC
From: Dale Putnam
Topic: 9505 Message: 9507

Hi Paul, A check of the current being drawn during key down would be helpful too. Suspect the finals, all three, have left, and require changing. That should bring it back, especially if the current during key down returns to normal, after replacement. This is assuming that there are no issues with connectors or coax now.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: aa1mi@...
Date: Mon, 9 Jul 2012 14:21:03 +0000
Subject: [AT_Sprint] Experience with fried output transistors?

During my last few SOTAs, I've been getting poor signal reports. I came home and measured my ATS-4 output, and running from 12.3V it's 1.70V p-p (= approx 0.6W) out instead of the 5+W I used to get.

I strongly suspect I fried the output transistors due to excessively high SWR (don't ask...).

Two questions:

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2. From those of you who might have had a similar experience, do I need to replace only the three MOSFETs, or do I have to replace additional components, as well?

thx, 73

Paul HB9DST

9508. RE: [AT_Sprint] I've got the MTR blues

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-09 17:27:30 UTC
From: William Schmidt
Topic: 9506 Message: 9508

John,
If all else fails then Steve will get it working for you. Email him when he gets back from his walk on the wild side.
Bill wv1n

To: AT_Sprint@yahoogroups.com
From: jgoodsell@...
Date: Mon, 9 Jul 2012 04:46:46 +0000
Subject: [AT_Sprint] I've got the MTR blues

I've been trying to get my MTR to work for the last month and a half or so.

On inital power up there was a loud hum in the headphones. Ultimately it blew R26. I believe the cuase was I had failed to make sure the band switches were all on one band. I replaced R26 and Q4.

Everyting seemed to work okay, but the rig lacked sensitivity. I could hear my other QRP transmitting into a Dummy load and I could peak the capacitors, but the rig will not pick up any 'on air' signals.

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Any suggestions?

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One nice thing, A short lead on pin 8 of U2 and I get AM 940 and an adjacent am station quite nicely!

Thanks

Johh

WB6HVH

9509. Re: ats-3b 2007 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-09 20:10:38 UTC
From: wa2ohf
Topic: 9491 Message: 9509

The U 12 came in and now it works fine and if I tune into a bad SWR the rig goes to E the over current protection is working also
73 Dale and thanks for your help.
Arthur NS7E

--- In AT_Sprint@yahoogroups.com, Arthur Ripple <arthurripple@...> wrote:
>
> Dale ,
> Good news I lifted the collector of Q5 and It came alive
> so it has to be a bad u12 chip hi current protection circuit
> Would you have a new u12 it has 108 on it ?
>

9510. RE: [AT_Sprint] Re: ats-3b 2007 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-09 22:40:07 UTC
From: Dale Putnam
Topic: 9491 Message: 9510

Hey Arthur, way to go!! Excellant!Good detective work. Congratulations!

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: arthurripple@...
Date: Mon, 9 Jul 2012 20:10:38 +0000
Subject: [AT_Sprint] Re: ats-3b 2007 kit

The U 12 came in and now it works fine and if I tune into a bad SWR the rig goes to E the over current protection is working also

73 Dale and thanks for your help.

Arthur NS7E

--- In AT_Sprint@yahoogroups.com, Arthur Ripple <arthurripple@...> wrote:

>

> Dale ,

> Good news I lifted the collector of Q5 and It came alive

> so it has to be a bad u12 chip hi current protection circuit

> Would you have a new u12 it has 108 on it ?

>

9511. Re: [AT_Sprint] Steve Weber hike

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-10 00:48:15 UTC
From: Cy Currier
Topic: 9476 Message: 9511

i had a talk w Steve before Dayton, and he said he would have no rig. i thought because of the extra water he had to carry, or some such thing. he is not alone but with a group who are doing the trail together. i am not sure if he is the brains behind the effort, the leader, or what. he is well seasoned and good in the woods. he didn't get to be a semi old faht by doing something stupid. i don't think anyone needs to worry. Uncle Cy -K1TES.

----- Original Message -----
> From: "wmorrill@..." <wmorrill@montana.edu>
> To: AT_Sprint@yahoogroups.com
> Cc:
> Sent: Tuesday, July 3, 2012 7:48 PM
> Subject: [AT_Sprint] Steve Weber hike
>
> Maybe someone is somehow in contact with Steve. If he needs help, they
> could relay information to me.
> I offerred to bring supplies to Steve when he gets to Homestake Pass east
> of Butte, about a one hour drive for me. His response was that it would
> be difficult to schedule a meeting.
> Lots of fires right now near here, but nothing appears to be in the area
> where Steve might be.
> He has my phone number if he needs help and is able to call. He has a
> friend in West Yellowstone who also might help if needed. I have this
> person's name and phone number. I am guessing that Steve wants to be
> left alone, and would like avoid radio stuff for a while.
> Anyway, I am here if needed. Home phone 406 five eight six 4209.
> Wendell Morrill
> N7WM
>
>
>
>
>> If Steve is anywhere near a road I can drive my 4 wheel drive truck on in
>> the next couple weeks I'd be happy to meet him and let him use my
>> oh-so-classic ATS2 for the Sprint. I'll even put fresh batteries in
> it.
>> ;)
>>
>> Heck, I'd even backpack it in a four or five miles if need be.
>>
>> Steve, if by some miracle of technology you can read this and want me to
>> meet you please let me know via return e-mail.
>>
>> 72,
>> *Lew*
>> K7GO

>>
>> On Mon, Jul 2, 2012 at 7:35 AM, Dale Putnam <daleputnam@...>
>> wrote:
>>
>>>
>>>
>>> YES!! I am disappointed.. I'm hoping that somehow that changes..
>>> maybe he'll surprise us?
>>>
>>>
>>>
>>> --... ...-- Dale - WC7S in Wy
>>>
>>> ----------
>>> To: AT_Sprint@yahoogroups.com
>>> From: paradoxpete.pdm@...
>>> Date: Mon, 2 Jul 2012 14:28:15 +0100
>>> Subject: Re: [AT_Sprint] AT Sprint QSO party
>>>
>>>
>>>
>>> On Mon, Jul 2, 2012 at 2:23 PM, Dale Putnam
>>> <daleputnam@...>wrote:
>>>
>>>
>>>
>>> Looking ahead, and checking this months fun, I had to write in
> Saturday
>>> July 21 for the:
>>>
>>> http://ats-sprint.blogspot.com/
>>>
>>> a fun time to be had by all... ATs.
>>> I'll be looking for YOU!!
>>>
>>> --... ...-- Dale - WC7S in Wy
>>>
>>>
>>> Dale, the *Super Bonus*: 500 points for working KD1JV, is going to be
>>> hard if he's off walking without a rig!
>>>
>>> Pete
>>> G4ISJ
>>> ATS4 and MTR
>>>
>>>
>>>
>>>
>>>
>>>

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> Yahoo! Groups Links
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9512. ATS-3B FOR SALE

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-10 14:59:00 UTC
From: Arthur Ripple
Topic: 9512 Message: 9512

FINALLY WORKING ATS-3B FOR SALE 225.00
First contact's
AB8EL 617 miles with 5w when finished R3DQand thenRA3DUO called I GOT 559
and 539 AT 4949 MILES , not bad for its first time out .

I want to build another one if anyone has one to trade please let me know ?

Arthur NS7E 952-758-2421

9513. Re: AT Sprint radios / QBSA on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-10 15:23:45 UTC
From: wa2ohf
Topic: 9502 Message: 9513

well I was toooo slow on that one hi hi
Arthur NS7E

--- In AT_Sprint@yahoogroups.com, John Shadle <shadle@...> wrote:
>
> Not sure if anyone saw this (probably not, since the bids are so low),
> but there's an auction up on eBay now (ends in 4 hours) for an ATS-3,
> ATS-3A, and a QBSA.
>
> http://item.ebay.com/320938720336
>
> I'm in no way affiliated with the person selling this, but thought
> others who want to get their hands on one of these would be
> interested. Right now the bidding is at $71 for all three. A veritable
> steal. I'd bid, but I've got too many unbuilt kits in the basement as
> it is.
>
> 73
> -john W4PAH
> Madison, WI
>

9514. ATS-3 SWR Limit?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-12 11:13:12 UTC
From: bill_w4zv
Topic: 9514 Message: 9514

From the ATS-3 (original) manual:

SWR

The ATS-3 transmitter can be keyed into an open circuit (no antenna connected) indefinitely. It will also tolerate a short circuit for relatively short periods of time, say 30
seconds. After this, the PA transistors start to get alarmingly hot! However, highly reactive
loads need to be avoided. Highly reactive loads can possibly cause the PA stage to become unstable. Although the PA is protected by a 46 volt zener diode across the drain/source terminals, very high SWR can cause the zener to heat up excessively and fail, usually by shorting. Possible problems with high SWR are most likely to happen if the rig is powered by a
12 volt supply and the transmitter producing a full 5 watts out.

Does anyone know Steve's definition of "highly reactive" or "very high SWR"? I've retweaked my BPFs for higher output (but still not 5W) and want to make sure I don't blow my finals when operating without a tuner.

73, Bill W4ZV

9515. Re: [AT_Sprint] ATS-3 SWR Limit?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-12 13:33:42 UTC
From: Hank Greeb
Topic: 9514 Message: 9515

I run my original AT-Sprint (no suffix) just fine with 9 volts (nominal) 10.5 volts (when NiCD bank of cells are fully charged). It puts out a robust 3 watts, everything runs very cool, and the difference in S-Meter level at the other end isn't worth trying to reach the very limit of the PA. My 31' vertical has a SWR=3 on 40 metres without a matching device, yet I've made quite a few contacts and so far haven't blown the finals.

That's my take on the thing, YMMV.

72/73 de n8xx Hg

On 7/12/2012 7:13 AM, bill_w4zv wrote:
> >From the ATS-3 (original) manual:
>
> SWR
>
> The ATS-3 transmitter can be keyed into an open circuit (no antenna connected) indefinitely. It will also tolerate a short circuit for relatively short periods of time, say 30 seconds. After this, the PA transistors start to get alarmingly hot! However, highly reactive loads need to be avoided. Highly reactive loads can possibly cause the PA stage to become unstable. Although the PA is protected by a 46 volt zener diode across the drain/source terminals, very high SWR can cause the zener to heat up excessively and fail, usually by shorting. Possible problems with high SWR are most likely to happen if the rig is powered by a 12 volt supply and the transmitter producing a full 5 watts out.
>
> Does anyone know Steve's definition of "highly reactive" or "very high SWR"? I've retweaked my BPFs for higher output (but still not 5W) and want to make sure I don't blow my finals when operating without a tuner.

9516. Building a new IAR assembler project

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-13 02:38:42 UTC
From: ac0bq
Topic: 9516 Message: 9516

Ge Group:
How do I take a firmware file such as one of the ATS4 files (ATS4nd.s43)
and assemble it into a project file that I can flash a ATS 4 rig with.
I have a ATS 4A version, but need the plain 4.
Thanks 72
Johnny AC0BQ

9517. Re: ATS-3B FOR SALE

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-13 15:38:35 UTC
From: wa2ohf
Topic: 9512 Message: 9517

SOLD !

--- In AT_Sprint@yahoogroups.com, Arthur Ripple <arthurripple@...> wrote:
>
> FINALLY WORKING ATS-3B FOR SALE 225.00
> First contact's
> AB8EL 617 miles with 5w when finished R3DQand thenRA3DUO called I GOT 559
> and 539 AT 4949 MILES , not bad for its first time out .
>
> I want to build another one if anyone has one to trade please let me know ?
>
> Arthur NS7E 952-758-2421
>

9518. Need ATS3 band modules

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-14 00:52:13 UTC
From: pgschreier
Topic: 9518 Message: 9518

Hello,

I seem to have misplaced some ATS3 band modules. Would anyone be willing to sell me some? They're not much good without the ATS3, so maybe it will be necessary to purchase the entire rig...

tnx,73
Paul AA1MI/HB9DST

9519. antenna question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-14 13:30:36 UTC
From: cloud runner
Topic: 9519 Message: 9519

Has anyone tried carbon fiber poles to support antenna, specifically, like an end-fed halfwave with the wire right on such a pole???

Does (or would) the carbon fiber interfere with an antenna (when the wire comes right down the pole)?

If it did interfere, how would one know????

73 Fred - KT5X

aka WS0TA

9520. Re: [AT_Sprint] antenna question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-15 01:14:14 UTC
From: Steve
Topic: 9519 Message: 9520

Fred,
Carbon fiber is conductive, although it may be bound into a non-conductive polymer or coating. While I have not used it in an antenna system, gut tells me that it may not be the best choice for an antenna support - at least from this perspective. While I don't know if one could consider a carbon fiber pole the same as, say a vinyl covered aluminum pole when placed in the near field of an antenna, I think if you approach your antenna design thinking along those lines you will have results closer to your expectations.

There have been boat fires caused by battery system shorts against carbon fiber hulls - which would not happen for non-conductive fiberglass hulls which in some ways look very similar. Further, corrosion issues as a result of galvanic action with carbon fiber hulls and various metallic fittings is an issue.

However the light weight sure makes it tempting for antenna supports!

Steve
aa8af

On Jul 14, 2012, at 9:30 AM, cloud runner wrote:

>
>
> Has anyone tried carbon fiber poles to support antenna, specifically, like an end-fed halfwave with the wire right on such a pole???
>
> Does (or would) the carbon fiber interfere with an antenna (when the wire comes right down the pole)?

9521. Re: [AT_Sprint] antenna question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-15 03:12:08 UTC
From: cloud runner
Topic: 9519 Message: 9521

TNX, and i bet you're right!

fd

----- Original Message -----
From: Steve
To: AT_Sprint@yahoogroups.com
Sent: Saturday, July 14, 2012 7:14 PM
Subject: Re: [AT_Sprint] antenna question

Fred,

Carbon fiber is conductive, although it may be bound into a non-conductive polymer or coating. While I have not used it in an antenna system, gut tells me that it may not be the best choice for an antenna support - at least from this perspective. While I don't know if one could consider a carbon fiber pole the same as, say a vinyl covered aluminum pole when placed in the near field of an antenna, I think if you approach your antenna design thinking along those lines you will have results closer to your expectations.

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On Jul 14, 2012, at 9:30 AM, cloud runner wrote:

Has anyone tried carbon fiber poles to support antenna, specifically, like an end-fed halfwave with the wire right on such a pole???

Does (or would) the carbon fiber interfere with an antenna (when the wire comes right down the pole)?

9522. Re: [AT_Sprint] antenna question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-15 07:55:47 UTC
From: Yannick DEVOS (XV4Y)
Topic: 9519 Message: 9522

Hi,

Just a few word my own experience.
For my Ground Plane and my hybrid Moxon I use cheap fishing poles that are labelled "carbon fiber".
However, being made in China, "Carbon Fiber" could just be some kind of branding.
I did not noticed any conductivity when testing with an ohm-meter and it seems more to colored glass fiber than real carbon fiber.
I never noticed any effect on the antenna behavior, everything work has expected with the models.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 15 juil. 2012 à 08:14, Steve a écrit :

>
>
> Fred,
> Carbon fiber is conductive, although it may be bound into a non-conductive polymer or coating. While I have not used it in an antenna system, gut tells me that it may not be the best choice for an antenna support - at least from this perspective. While I don't know if one could consider a carbon fiber pole the same as, say a vinyl covered aluminum pole when placed in the near field of an antenna, I think if you approach your antenna design thinking along those lines you will have results closer to your expectations.
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>
> However the light weight sure makes it tempting for antenna supports!
> < br>
> Steve
> aa8af
>
>
>
>
> On Jul 14, 2012, at 9:30 AM, cloud runner wrote:
>
>>

>>
>> Has anyone tried carbon fiber poles to support antenna, specifically, like an end-fed halfwave with the wire right on such a pole???
>>
>> Does (or would) the carbon fiber interfere with an antenna (when the wire comes right down the pole)?
>
>
>
>

9523. July RFTB tonight!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-15 19:40:10 UTC
From: Larry Makoski
Topic: 9523 Message: 9523

This kind of snuck up on me as July 1st was a Sunday, so .....

Tonight happens to be the July 2012 edition of the Run For The Bacon (this being the third Sunday of the month and all!). That friendly lil' ol' QRP Sprint sponsored by your friends at the Flying Pigs QRP Amateur Radio Club International. Join us for a spell to have some fun and to say "Hi" to friends, old and new.

The time is the same as always:

East coast - 9:00 to 11:00 PM local time
Midwest - 8:00 to 10:00 PM local time
Rockies - 7:00 to 9:00 PM local time
West coast - 6:00 to 8:00 PM local time

The rules are at:

http://fpqrp.org/pigrun/

73 de Larry W2LJ
FP# 612
QRP ARCI# 4488

9524. ATS-4b Save start- frequence

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-16 07:22:41 UTC
From: Karl Heinz
Topic: 9524 Message: 9524

Hello OM's!

After power up (Band 40m) my ATS-4b displays:

First line: MHz
2. line: 7.3 +
3. line:
4. line: -- 11.9V

No receiving signals.

After switch S7 80m return 40m displays 09.999.900 MHz
and audiotone without antenna connecting.

It is impossible change the band-start-frequency in DFE mode.

Programming interface cable.

All resistors R1-R5 = 220 Ohm ?

Who HAM can help me?

73

Karl, DL2XL

9525. NAQCC Sprint Wednesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-17 01:21:56 UTC
From: NAQCC
Topic: 2848 Message: 9525

NAQCC Sprint Wednesday night!

Our July sprint is this coming Wednesday evening local time (July 18, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Thursday July 19, 0030-0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201207.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX. A Certificate for top score in the GAIN antenna category. Finally there is one more award - a certificate to the highest score from a first-time participant.

Prizes: A prize of a set of bug/paddle handles or a K1/K2 knob insert donated by master woodworker Gregg WB8LZG is awarded for each sprint to the winner of a random drawing among all participants. Previous winners are not eligible.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6100+ members in: All 50 States - 9 VE Provinces - 90 Countries. Just sign up on the NAQCC website (http://naqcc.info/) and you will receive a handsome certificate, with your membership number which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

9526. Re: [AT_Sprint] AT-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-17 17:44:05 UTC
From: Peter Martin
Topic: 9499 Message: 9526

So how many of you are going to be active?

I'm planning (WX es HF condx permitting) to be active from SOTA summit G/CE-001.
I'll have my ATS4 and MTR.

I think our best hope of a transatlantic QSO will be 20M, IF the band opens up.
I'll have an EFHW vertical for 20 and half square config for lower bands.

I hope it's worth staying out of bed for!

Pete
G4ISJ

On Sat, Jul 7, 2012 at 5:43 PM, Dale Putnam <daleputnam@...> wrote:

>
>
> Come join us for a QSO Party devoted to KD1JV's marvel Appalachian Trail
> Sprint transceivers.
>
> Whether you're running an original ATS or the latest MTR, or even if
> you're not running one of Steve's rigs, you're welcome to join us on July
> 22, 2012 from 0000 to 0300Z.
>
> click here for rules: http://ats-sprint.blogspot.com/p/rules.html
>
>
>
> --... ...-- Dale - WC7S in Wy
>
>

9527. RE: [AT_Sprint] AT-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-17 18:22:40 UTC
From: Dale Putnam
Topic: 9499 Message: 9527

I'll be there... and I will be listening for you. I'll be using an AT3, 3b, 3b.1, 4, 4a, 4b, PRF3, MTR, or TriBander. and the antenna is about the same sorta listing...
No.. not all at the same time.. tho.
--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: paradoxpete.pdm@gmail.com
Date: Tue, 17 Jul 2012 18:44:05 +0100
Subject: Re: [AT_Sprint] AT-Sprint

So how many of you are going to be active?

I'm planning (WX es HF condx permitting) to be active from SOTA summit G/CE-001.
I'll have my ATS4 and MTR.

I think our best hope of a transatlantic QSO will be 20M, IF the band opens up.

I'll have an EFHW vertical for 20 and half square config for lower bands.

I hope it's worth staying out of bed for!

Pete
G4ISJ

On Sat, Jul 7, 2012 at 5:43 PM, Dale Putnam <daleputnam@...> wrote:

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Whether you're running an original ATS or the latest MTR,
or even if you're not running one of Steve's rigs, you're welcome to join us on July 22, 2012 from 0000 to 0300Z.

click here for rules: http://ats-sprint.blogspot.com/p/rules.html

--... ...--
Dale - WC7S in Wy

9528. Re: [AT_Sprint] AT-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-18 00:05:13 UTC
From: Johnny Matlock
Topic: 9499 Message: 9528

I am planning on being on the air with at least my ATS 4B. maybe a fresh
off the bench MTR!
20 or 40 m sounds good to me.
CU all there!!!
Johnny AC0BQ
SE KS

On Sat, Jul 7, 2012 at 11:43 AM, Dale Putnam <daleputnam@...m> wrote:

> **
>
>
> Come join us for a QSO Party devoted to KD1JV's marvel Appalachian Trail
> Sprint transceivers.
>
> Whether you're running an original ATS or the latest MTR, or even if
> you're not running one of Steve's rigs, you're welcome to join us on July
> 22, 2012 from 0000 to 0300Z.
>
> click here for rules: http://ats-sprint.blogspot.com/p/rules.html
>
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>

9529. FS 7" Windows CE 6 NEW

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-18 13:45:11 UTC
From: Dale Putnam
Topic: 9529 Message: 9529

FOR SALE: a NEW 7 inch Window CE 6, "booklet" that arrived on my desk, intended to be a portable/mobile logger. I simply haven't gotten to do that. And honestly, I'm not sure when I will. I'm disappointed, but you won't be, if you want it. It has a mousepad, and keyboard. It came here for $100. It has wireless and does browsing nicely. Make an offer less than $100, before Saturday 0001z or 6pm Friday evening, and we'll get the addresses straight and I'll ship it by the weekend. Payment by Paypal or check. Please respond off list. Thank you for the bandwidth,Have a great day, Dale - WC7S in Wy

9530. Re: [AT_Sprint] FS 7" Windows CE 6 NEW

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-18 13:47:40 UTC
From: Wayne Dillon
Topic: 9529 Message: 9530

Hi Dale,
What make and model, interested.
Wayne - KC0PMH

On Wed, Jul 18, 2012 at 8:45 AM, Dale Putnam <daleputnam@...> wrote:

>
>
> FOR SALE: a NEW 7 inch Window CE 6, "booklet" that arrived on my desk,
> intended to be a portable/mobile logger. I simply haven't gotten to do
> that. And honestly, I'm not sure when I will. I'm disappointed, but you
> won't be, if you want it. It has a mousepad, and keyboard. It came here for
> $100. It has wireless and does browsing nicely. Make an offer less than
> $100, before Saturday 0001z or 6pm Friday evening, and we'll get the
> addresses straight and I'll ship it by the weekend. Payment by Paypal or
> check. Please respond off list.
>
> Thank you for the bandwidth,
> Have a great day,
> Dale - WC7S in Wy
>
>
>
>

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http://www.qsl.net/kc0pmh/ Under construction but please visit anyway.
**
QRP - *EFFICIENCY AND SKILL, NOT POWER.*

I'm British by birth but American by CHOICE!

Jesus came to pay a debt He didn't owe because we owe a debt we cannot
pay...

May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
1 Jn 2:17

http://www.4sqrp.com/index.php

4 State QRP Group NCS - 40m & 160m
FPQRP #342 (Flying Pigs QRP Club)
G-QRP-C #11504

NAQCC # 0759
QRP-ARCI #11505
SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9531. RE: [AT_Sprint] FS 7" Windows CE 6 NEW

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-18 13:56:33 UTC
From: Dale Putnam
Topic: 9529 Message: 9531

Hi Wayne, It is a knockoff from China, the tag on the bottom says:OS: Windows CW 6.0CPU: WM 8505 300MHZDisplay: 7" TRT 800*480Memory: DDR II 128MBinput: 9v 1.5A

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: wayne.dillon@...
Date: Wed, 18 Jul 2012 08:47:40 -0500
Subject: Re: [AT_Sprint] FS 7" Windows CE 6 NEW

Hi Dale,What make and model, interested.Wayne - KC0PMH

On Wed, Jul 18, 2012 at 8:45 AM, Dale Putnam <daleputnam@...> wrote:

FOR SALE: a NEW 7 inch Window CE 6, "booklet" that arrived on my desk, intended to be a portable/mobile logger. I simply haven't gotten to do that. And honestly, I'm not sure when I will. I'm disappointed, but you won't be, if you want it. It has a mousepad, and keyboard. It came here for $100. It has wireless and does browsing nicely. Make an offer less than $100, before Saturday 0001z or 6pm Friday evening, and we'll get the addresses straight and I'll ship it by the weekend. Payment by Paypal or check. Please respond off list.

Thank you for the bandwidth,
Have a great day,
Dale - WC7S in Wy

--
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I'm British by birth but American by CHOICE!

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May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
1 Jn 2:17

http://www.4sqrp.com/index.php

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QRP-ARCI #11505
SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9532. Re: [AT_Sprint] FS 7" Windows CE 6 NEW

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-18 14:15:26 UTC
From: Wayne Dillon
Topic: 9529 Message: 9532

You wanna trade for my 30A switched mode PSU (or partway trade?)
Wayne.

On Wed, Jul 18, 2012 at 8:56 AM, Dale Putnam <daleputnam@...> wrote:

>
>
> Hi Wayne,
> It is a knockoff from China, the tag on the bottom says:
> OS: Windows CW 6.0
> CPU: WM 8505 300MHZ
> Display: 7" TRT 800*480
> Memory: DDR II 128MB
> input: 9v 1.5A
>
>
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: wayne.dillon@...
> Date: Wed, 18 Jul 2012 08:47:40 -0500
> Subject: Re: [AT_Sprint] FS 7" Windows CE 6 NEW
>
>
> Hi Dale,
> What make and model, interested.
> Wayne - KC0PMH
>
> On Wed, Jul 18, 2012 at 8:45 AM, Dale Putnam <daleputnam@...>wrote:
>
>
>
> FOR SALE: a NEW 7 inch Window CE 6, "booklet" that arrived on my desk,
> intended to be a portable/mobile logger. I simply haven't gotten to do
> that. And honestly, I'm not sure when I will. I'm disappointed, but you
> won't be, if you want it. It has a mousepad, and keyboard. It came here for
> $100. It has wireless and does browsing nicely. Make an offer less than
> $100, before Saturday 0001z or 6pm Friday evening, and we'll get the
> addresses straight and I'll ship it by the weekend. Payment by Paypal or
> check. Please respond off list.
>
> Thank you for the bandwidth,
> Have a great day,

> Dale - WC7S in Wy
>
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> --
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> Jesus came to pay a debt He didn't owe because we owe a debt we cannot
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> May the Good Lord make His face to shine upon you.
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> Joshua 24:14-15
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NEQRP #693

9533. Re: [AT_Sprint] FS 7" Windows CE 6 NEW

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-18 15:16:53 UTC
From: Wayne Dillon
Topic: 9529 Message: 9533

Dale,
Failing an exchange for the Power Supply/money what kinda money are you
looking for?
Can do Paypal right now.
Wayne.

On Wed, Jul 18, 2012 at 8:56 AM, Dale Putnam <daleputnam@...> wrote:

>
>
> Hi Wayne,
> It is a knockoff from China, the tag on the bottom says:
> OS: Windows CW 6.0
> CPU: WM 8505 300MHZ
> Display: 7" TRT 800*480
> Memory: DDR II 128MB
> input: 9v 1.5A
>
>
>
> --... ...-- Dale - WC7S in Wy
>
> ---
> To: AT_Sprint@yahoogroups.com
> From: wayne.dillon@...
> Date: Wed, 18 Jul 2012 08:47:40 -0500
> Subject: Re: [AT_Sprint] FS 7" Windows CE 6 NEW
>
>
> Hi Dale,
> What make and model, interested.
> Wayne - KC0PMH
>
> On Wed, Jul 18, 2012 at 8:45 AM, Dale Putnam <daleputnam@...>wrote:
>
>
>
> FOR SALE: a NEW 7 inch Window CE 6, "booklet" that arrived on my desk,
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> that. And honestly, I'm not sure when I will. I'm disappointed, but you
> won't be, if you want it. It has a mousepad, and keyboard. It came here for
> $100. It has wireless and does browsing nicely. Make an offer less than
> $100, before Saturday 0001z or 6pm Friday evening, and we'll get the
> addresses straight and I'll ship it by the weekend. Payment by Paypal or
> check. Please respond off list.

>
> Thank you for the bandwidth,
> Have a great day,
> Dale - WC7S in Wy
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> *QRP* - *EFFICIENCY AND SKILL, NOT POWER.*
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> Jesus came to pay a debt He didn't owe because we owe a debt we cannot
> pay...
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> May the Good Lord make His face to shine upon you.
> God Bless from Wayne Dillon - KC0PMH
>
> Joshua 24:14-15
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God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
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http://www.4sqrp.com/index.php

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SOC #848
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NEQRP #693

9534. RE: [AT_Sprint] FS 7" Windows CE 6 NEW

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-18 15:17:02 UTC
From: Dale Putnam
Topic: 9529 Message: 9534

Hi Wayne, I could be interested in that.... is it crowbar protected.. or current limeted? What model is it?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: wayne.dillon@...
Date: Wed, 18 Jul 2012 09:15:26 -0500
Subject: Re: [AT_Sprint] FS 7" Windows CE 6 NEW

You wanna trade for my 30A switched mode PSU (or partway trade?)Wayne.

On Wed, Jul 18, 2012 at 8:56 AM, Dale Putnam <daleputnam@...> wrote:

Hi Wayne,
It is a knockoff from China, the tag on the bottom says:
OS: Windows CW 6.0
CPU: WM 8505 300MHZ
Display: 7" TRT 800*480
Memory: DDR II 128MB
input: 9v 1.5A

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: wayne.dillon@...

Date: Wed, 18 Jul 2012 08:47:40 -0500
Subject: Re: [AT_Sprint] FS 7" Windows CE 6 NEW

Hi Dale,What make and model, interested.Wayne - KC0PMH

On Wed, Jul 18, 2012 at 8:45 AM, Dale Putnam <daleputnam@...m> wrote:

FOR SALE: a NEW 7 inch Window CE 6, "booklet" that arrived on my desk, intended to be a portable/mobile logger. I simply haven't gotten to do that. And honestly, I'm not sure when I will. I'm disappointed, but you won't be, if you want it. It has a mousepad, and keyboard. It came here for $100. It has wireless and does browsing nicely. Make an offer less than $100, before Saturday 0001z or 6pm Friday evening, and we'll get the addresses straight and I'll ship it by the weekend. Payment by Paypal or check. Please respond off list.

Thank you for the bandwidth,
Have a great day,
Dale - WC7S in Wy

--
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God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
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God Bless from Wayne Dillon - KC0PMH

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NEQRP #693

9535. Chilkoot Pass

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-18 15:54:06 UTC
From: Bradley
Topic: 9535 Message: 9535

Hi All,

Just got my AT3A on the air and I plan on taking it on Backpacking trip next week.

I will be hiking the Chilkoot pass trail between Alaska and the Yukon.
I will try to get on as circumstances allow in the evening between July 21 and 27th.

Look for me around 14.061 at 13 WPM if you happen to be on.

73's
Brad
KZ5W

9536. RE: [AT_Sprint] FS 7" Windows CE 6 NEW postings.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-18 16:06:59 UTC
From: Wayne Dillon
Topic: 9536 Message: 9536

Sorry to the group for posting to the list instead of Dale direct, I wasn't watching the "To" address.
God Bless es 72/3 de Wayne - KC0PMH

--
http://www.qsl.net/kc0pmh/ Under construction but please visit anyway.
**
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May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
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SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9537. RE: [QRP-L] FS 7" Windows CE 6 NEW - SOLD

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-18 16:13:38 UTC
From: Dale Putnam
Topic: 9529 Message: 9537

That was way quicker.... than I expected. Thank you for the bandwidth, and all the interest.There will be more shortly. I'm cleaning, rearranging, and re-ogainizing to be able to build and repair more effeciently.Thank you,
--... ...--
Dale - WC7S in Wy
> From: daleputnam@...
> To: qrp-l@...; at_sprint@yahoogroups.com
> Date: Wed, 18 Jul 2012 07:45:11 -0600
> Subject: [QRP-L] FS 7" Windows CE 6 NEW
>
>
> FOR SALE: a NEW 7 inch Window CE 6, "booklet" that arrived on my desk, intended to be a portable/mobile logger. I simply haven't gotten to do that. And honestly, I'm not sure when I will. I'm disappointed, but you won't be, if you want it. It has a mousepad, and keyboard. It came here for $100. It has wireless and does browsing nicely. Make an offer less than $100, before Saturday 0001z or 6pm Friday evening, and we'll get the addresses straight and I'll ship it by the weekend. Payment by Paypal or check. Please respond off list. Thank you for the bandwidth,Have a great day, Dale - WC7S in Wy
> _____
> QRP-L mailing list
> Home: http://mailman.qth.net/mailman/listinfo/qrp-l
> Help: http://mailman.qth.net/mmfaq.htm
> Post: mailto:QRP-L@...
>
> This list hosted by: http://www.qsl.net
> Please help support this email list: http://www.qsl.net/donate.html

9538. Re: Chilkoot Pass

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-19 16:38:48 UTC
From: scott
Topic: 9535 Message: 9538

have fun, and be safe!
73
scott w5ese

--- In AT_Sprint@yahoogroups.com, "Bradley" <bcarlsonkz5w@...> wrote:
>
> Hi All,
>
> Just got my AT3A on the air and I plan on taking it on Backpacking trip next week.
>
> I will be hiking the Chilkoot pass trail between Alaska and the Yukon.
> I will try to get on as circumstances allow in the evening between July 21 and 27th.
>
> Look for me around 14.061 at 13 WPM if you happen to be on.
>
> 73's
> Brad
> KZ5W
>

9539. Re: AT-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-19 19:19:22 UTC
From: bill_w4zv
Topic: 9499 Message: 9539

This will be a serious problem for the AT-Sprint:

North American QSO Party on RTTY will be this Saturday July 21, 2012
New York-time: Saturday 2PM to Sunday 2AM EDST
California-time: Saturday 11AM to 11PM PDST.
UTC-time: Saturday 1800z to Sunday 0600z.

http://ncjweb.com/naqprules.php

If it wasn't the last minute, I'd strongly suggest a date change. Most will be running 100 Watts and will probably be all over the usual QRP frequencies.

73, Bill

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> I'll be there... and I will be listening for you. I'll be using an AT3, 3b, 3b.1, 4, 4a, 4b, PRF3, MTR, or TriBander. and the antenna is about the same sorta listing...
> No.. not all at the same time.. tho.
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: paradoxpete.pdm@...
> Date: Tue, 17 Jul 2012 18:44:05 +0100
> Subject: Re: [AT_Sprint] AT-Sprint
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> So how many of you are going to be active?
>
> I'm planning (WX es HF condx permitting) to be active from SOTA summit G/CE-001.
> I'll have my ATS4 and MTR.
>
> I think our best hope of a transatlantic QSO will be 20M, IF the band opens up.
>
> I'll have an EFHW vertical for 20 and half square config for lower bands.
>
> I hope it's worth staying out of bed for!
>
> Pete
> G4ISJ
>
> On Sat, Jul 7, 2012 at 5:43 PM, Dale Putnam <daleputnam@...> wrote:
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>
> Come join us for a QSO Party devoted to KD1JV's marvel Appalachian Trail Sprint
> transceivers.
>
> Whether you're running an original ATS or the latest MTR,

> or even if you're not running one of Steve's rigs, you're welcome to join us on
> July 22, 2012 from 0000 to 0300Z.
>
> click here for rules: http://ats-sprint.blogspot.com/p/rules.html
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> --... ...--
> Dale - WC7S in Wy
>

9540. Re: [AT_Sprint] Re: AT-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-19 19:39:44 UTC
From: Hank Greeb
Topic: 9499 Message: 9540

The NAQP RTTY has been on contest calendars for years. It is always the Third full weekend in July. I've never operated with this contest featuring a 1930ish mode of operating, but with the advent of "plug and play" computer generated RTTY the mode has become more popular. I believe there is room for CW amongst the RATTy folks. We might need to move from the "14060" watering hole, in particular, because that's near the 14070 KHz recommended RTTY frequency. Fortunately, the AT-Sprint series are frequency agile.

One saving graces is the rule "Output power must be no more than 100 W for eligible entries."

BTW, QRP operation will be noted in the results writeup - anyone have a late version of the AT-Sprint which is capable of RTTY operating? That could be a blast!

72/73 de n8xx Hg

On 7/19/2012 3:19 PM, bill_w4zv wrote:
> This will be a serious problem for the AT-Sprint:
>
> North American QSO Party on RTTY will be this Saturday July 21, 2012
> New York-time: Saturday 2PM to Sunday 2AM EDST
> California-time: Saturday 11AM to 11PM PDST.
> UTC-time: Saturday 1800z to Sunday 0600z.
>
> http://ncjweb.com/naqprules.php
>
> If it wasn't the last minute, I'd strongly suggest a date change. Most will be running 100 Watts and will probably be all over the usual QRP frequencies.
>
> 73, Bill

9541. RE: [AT_Sprint] Re: AT-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-19 19:50:12 UTC
From: Dale Putnam
Topic: 9499 Message: 9541

It would also be a blast... if all stations would monitor before tx.... it is illegal to blast a cq.. right on top of an esstablished Qso. And don't even start with... the rtty stations do that.. they just can't hear qrp. That don't wash... no how.. no way.Besides illegal.. it is just simply plain rude. Now.. you know exactly how I feel. and rtty decode is also available during cw operation.. so don't start thinking that no one will know who .. either.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: n8xx@...
Date: Thu, 19 Jul 2012 15:39:44 -0400
Subject: Re: [AT_Sprint] Re: AT-Sprint

The NAQP RTTY has been
on contest calendars for years. It is always the Third full
weekend in July. I've never operated with this contest
featuring a 1930ish mode of operating, but with the advent of
"plug and play" computer generated RTTY the mode has become more
popular. I believe there is room for CW amongst the RATTy
folks. We might need to move from the "14060" watering hole,
in particular, because that's near the 14070 KHz recommended
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agile.

One saving graces is the rule "Output power must be no more than
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BTW, QRP operation will be noted in the results writeup - anyone
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http://ncjweb.com/naqprules.php

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73, Bill

9542. Re: AT-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-20 02:14:47 UTC
From: bill_w4zv
Topic: 9499 Message: 9542

In QRP contests I cannot hear other stations outside my skip zone. That's always problem in QRP contests because backscatter using QRP to marginal antennas is non-existent. RTTY folks outside your skip zone will not hear you and will likely fire up on top of you without even knowing you're there. It's especially a problem because RTTY will be in the same general area of the band as QRP frequencies and there will be many times the number of QRP participants.

NAQP is a very popular RTTY contest with high activity (see results below). I just wanted to warn everyone, have no axe to grind and wish everyone good luck.

http://www.ncjweb.com/rttynaqp072011.pdf

73, Bill

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
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> To: AT_Sprint@yahoogroups.com
> From: n8xx@...
> Date: Thu, 19 Jul 2012 15:39:44 -0400
> Subject: Re: [AT_Sprint] Re: AT-Sprint
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> 72/73 de n8xx Hg
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> If it wasn't the last minute, I'd strongly suggest a date change. Most will be running 100 Watts and will probably be all over the usual QRP frequencies.
>
> 73, Bill
>

9543. RE: [AT_Sprint] Re: AT-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-20 02:22:37 UTC
From: Dale Putnam
Topic: 9499 Message: 9543

Oh I know Bill.. there will be a whole lot more of them.. that there are of qrp ops.. and back scatter is a small part of it.. sure. I used to run rtty a lot... and there is a different mindset there. In any case.. that's another topic.... I'm going to be having a blast with cw.. during the rtty test.. and they can't keep me frustrated the whole time. I'll find somewhere to make Qs.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: w0zv@...
Date: Fri, 20 Jul 2012 02:14:47 +0000
Subject: [AT_Sprint] Re: AT-Sprint

In QRP contests I cannot hear other stations outside my skip zone. That's always problem in QRP contests because backscatter using QRP to marginal antennas is non-existent. RTTY folks outside your skip zone will not hear you and will likely fire up on top of you without even knowing you're there. It's especially a problem because RTTY will be in the same general area of the band as QRP frequencies and there will be many times the number of QRP participants.

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> --... ...--

> Dale - WC7S in Wy

> To: AT_Sprint@yahoogroups.com

> From: n8xx@...

> Date: Thu, 19 Jul 2012 15:39:44 -0400

> Subject: Re: [AT_Sprint] Re: AT-Sprint

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> 72/73 de n8xx Hg

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>

> If it wasn't the last minute, I'd strongly suggest a date change. Most will be running 100 Watts and will probably be all over the usual QRP frequencies.

>

> 73, Bill

>

9544. Re: [AT_Sprint] Re: AT-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-20 02:21:49 UTC
From: Hank Greeb
Topic: 9499 Message: 9544

You have a point, Bill, but

I've operated QRP in many, many contests (never RTTY) and never ceased to be amazed what 5 watts to a "cloud warmer" antenna can do amongst the KW crowd. My contest friends tell me "Life if too Short for QRP" but then I make 200 or more QSO's in 10 hours or so of piddling around with a contest.

If the "usual QRP frequencies" (and no one owns ANY frequencies) are occupied, try the very low end of each band, or on 40 metres try 7100 to 7125 KHz. Usually the lower 25 KHz of each band are wide open, even during the international DX contests, and I've never heard any contest activity between 7100 and 7125 KHz.

72/73 de n8xx Hg

On 7/19/2012 10:14 PM, bill_w4zv wrote:
> In QRP contests I cannot hear other stations outside my skip zone. That's always problem in QRP contests because backscatter using QRP to marginal antennas is non-existent. RTTY folks outside your skip zone will not hear you and will likely fire up on top of you without even knowing you're there. It's especially a problem because RTTY will be in the same general area of the band as QRP frequencies and there will be many times the number of QRP participants.
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>
> http://www.ncjweb.com/rttynaqp072011.pdf
>
> 73, Bill

9545. sprint contest

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-20 02:50:12 UTC
From: William
Topic: 9545 Message: 9545

If the rtty qrm prevents using the usual qrp frequencies then we should announce our frequencies on qrpspots.com. This would allow us to direct enter frequency on our ATS rigs.
Bill, WV1N

9546. Re: [AT_Sprint] sprint contest

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-20 03:32:35 UTC
From: Dale Putnam
Topic: 9545 Message: 9546

Excellent idea!!! Lets do that!!
Have a great day,
Dale - WC7S

-----Original Message-----
From: William <fretjock@...>
Date: Fri, 20 Jul 2012 02:50:12
To: <AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] sprint contest

If the rtty qrm prevents using the usual qrp frequencies then we should announce our frequencies on qrpspots.com. This would allow us to direct enter frequency on our ATS rigs.
Bill, WV1N

9547. Re: sprint contest

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-20 10:43:01 UTC
From: bill_w4zv
Topic: 9545 Message: 9547

While that might be a good solution for home operations it wouldn't work too well for portable stations without Internet. I'd guess the best (non-Extra Class) place would be above 100 on all bands (e.g. 14100, 7100, etc).

Good luck to everyone!

73, Bill

--- In AT_Sprint@yahoogroups.com, "William" <fretjock@...> wrote:
>
> If the rtty qrm prevents using the usual qrp frequencies then we should announce our frequencies on qrpspots.com. This would allow us to direct enter frequency on our ATS rigs.
> Bill, WV1N
>

9548. FS: KD1JV QBSA. (Sort of)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-19 14:53:21 UTC
From: NZ8J
Topic: 9548 Message: 9548

I recently bought a QBSA assembled board from another ham to use with a ATS-3B that I should receive shortly.

To make a long story short it was not in the condition I was expecting. I knew the display was attached by ribbon cable to allow for more mounting options but I wasn't expecting the poor assembly job, lots of board resoldering jobs resulting in an ugly looking board. One wire from the toroid is broke off the board where it was soldered. It just generally needs to be completely cleaned up or rebuilt. That's not something I am prepared to undertake.

The good news is that when applying power the display lights up in the freq position with flickering numbers I contribute to not having an input. When cycling through the power and R power positions it lights up and the R shows up in the reverse power position.

That's the extent I know of it, it is sold as-is obviously. I paid way too much for it. I would like to get $50 for it shipped in the US, paypal preferred, but will take US postal money order.

I can send pictures of it tonight if no one says they will take it beforehand.

Thanks
Tim
NZ8J

9549. Re: AT-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-20 13:11:15 UTC
From: f_skinner
Topic: 9499 Message: 9549

I am going to try to be on. I will be using the ATS4b and an endfed antenna/Crappie pole somewhere. I have not decided where to operate at but I am thinking about a park down the road that I can walk to and can get 3G on the phone so I will be able to spot as well. Of course this is way past my bed time as I am in at work 0530 daily so I may have to nap in the afternoon first.

Frank
K0JQZ

9551. KD1JV QBSA **SOLD**

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-20 22:59:38 UTC
From: NZ8J
Topic: 9551 Message: 9551

Thanks to all who responded
73
Tim
Nz8J

9552. ATS-Sprint coming up soon!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-21 02:52:00 UTC
From: Dale Putnam
Topic: 9552 Message: 9552

It's less than 24 hours away, and sure there will be some competition on the bands.. and that is ok.. yes, it may get frustrating, and somewhat tiring to have to work around... but you know what? If it were really easy... it wouldn't be a challange... and we all like challanges, right? So, here's one for you.... I challange each of you... to get on.. and have some fun... participate in the very first ATS-Sprint. Just do it. I will, I think I will work every one of the radios I have from Steve... each one.. no.. not at the same time... but that would be fun too.. put one on each band...hmmm... I could get them swapped into operation more that way... ... aw... just swapping radios is probably easier.. and less likely to screw something up. SO.. if I tell one of you one radio.. and someone else another... DON'T change the first entry in your log. And if I give each radio its own fair share of airtime..I'll be swapping every half hour. hmmm... I better get that arranged well... so I don't lose much time swapping. Ok.. I'm almost ready.. are you? See you in less than 24 hours.. (let's see... "cq ats, cq ats, cq ats... " yep, that works) Good luck

--... ...--
Dale - WC7S in Wyhttp://ats-sprint.blogspot.com/p/rules.html

9553. For Sale: ATS3B, ATS4B and AT_Sprint MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-21 05:42:39 UTC
From: Ken Lotts
Topic: 9551 Message: 9553

Please be advised that I have just listed all of my unbuilt ATS kits on Ebay
in order to fund my RC hobby needs.

Just go to ebay and seach for ATS3B, or ATS4B or AT_Sprint MTR

Ken Lotts
aa7jc

9554. Re: [AT_Sprint] ATS-Sprint coming up soon!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-21 10:54:51 UTC
From: Wilford D Lindsey
Topic: 9552 Message: 9554

Dear Dale:

Here I am at the last minute, wondering about the details of the AT Sprint. Dumb me, but believe it or not, I don't seem to be able to find the most basic details re the contest, such as date, time, exchange, etc.

PLEASE re-send me the post telling me how to find the rules, TIA. Or call me after 1030 mountain time (SHhh....Holly is not getting better, actually worse before my very eyes 8-(.).

SORRY.....but I am losing her, seemingly by the minute. DaMN.

505-366-7182.

--DOC
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: Dale Putnam <daleputnam@hotmail.com>
Sender: AT_Sprint@yahoogroups.com
Date: Fri, 20 Jul 2012 20:52:00
To: qrp-l@mailman.qth.net<qrp-l@mailman.qth.net>; qrp-l@qrp-l.org<qrp-l@qrp-l.org>; AT Sprint<at_sprint@yahoogroups.com>; pfr3_group@yahoogroups.com<pfr3_group@yahoogroups.com>
Reply-To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] ATS-Sprint coming up soon!

It's less than 24 hours away, and sure there will be some competition on the bands.. and that is ok.. yes, it may get frustrating, and somewhat tiring to have to work around... but you know what? If it were really easy... it wouldn't be a challange... and we all like challanges, right? So, here's one for you.... I challange each of you... to get on.. and have some fun... participate in the very first ATS-Sprint. Just do it. I will, I think I will work every one of the radios I have from Steve... each one.. no.. not at the same time... but that would be fun too.. put one on each band...hmmm... I could get them swapped into operation more that way... ... aw... just swapping radios is probably easier.. and less likely to screw something up. SO.. if I tell one of you one radio.. and someone else another... DON'T change the first entry in your log. And if I give each radio its own fair share of airtime..I'll be swapping every half hour. hmmm... I better get that arranged well... so I don't lose much time swapping. Ok.. I'm almost ready.. are you? See you in less than 24 hours.. (let's see... "cq ats, cq ats, cq ats... " yep, that works) Good luck

--... ...--
Dale - WC7S in Wyhttp://ats-sprint.blogspot.com/p/rules.html

9555. ATS-Sprint in 12 Hours

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-21 12:05:02 UTC
From: Dale Putnam
Topic: 9552 Message: 9555

ttp://ats-sprint.blogspot.com/p/rules.html Please check the rules page... lastest and greatest, to help make it even more fun!!! And we have 12 hours left, better hurry.

--... ...--
Dale - WC7S in Wy

It's less than 24 hours away, and sure there will be some competition on the bands.. and that is ok.. yes, it may get frustrating, and somewhat tiring to
have to work around... but you know what? If it were really easy... it wouldn't be a challange... and we all like challanges, right?

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hmmm... I could get them swapped into operation more that way... ... aw... just swapping radios is probably easier.. and less likely to screw something up.

SO.. if I tell one of you one radio.. and someone else another... DON'T change the first entry in your log. And if I give each radio its own fair share of airtime..
I'll be swapping every half hour. hmmm... I better get that arranged well... so I don't lose much time swapping.

Ok.. I'm almost ready.. are you?

See you in less than 24 hours..
(let's see... "cq ats, cq ats, cq ats... " yep, that works)

Good luck

--... ...--
Dale - WC7S in Wy
http://ats-sprint.blogspot.com/p/rules.html

9556. Re: [AT_Sprint] ATS-Sprint in 12 Hours

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-21 14:02:45 UTC
From: Andrew Cross
Topic: 9552 Message: 9556

I plan to stay up to participate in the contest later - the start time is 2am local time here in Paris, France! I will try to operate both an ATS 4B and a MTR 20/40. Mainly on 20m, but also perhaps on 15m (with the 4B). I will probably self-spot on QRPSPOTS, particularly on 15m as my antenna for this band is resonant a little higher up the band at the moment.

I hope to hear and work some of you who are joining in for the fun. My CW skills are still at the fledgeling stage so although I will be trying not to be a nuisance, I do ask for your patience...if I can be heard in the first place! Now back to programming the memories of these fine radios.

Good luck to all.

All the best
Andrew
F4VPI
aka M0ONZ

From: Dale Putnam <daleputnam@hotmail.com>
>To:
>Sent: Saturday, 21 July 2012, 14:05
>Subject: [AT_Sprint] ATS-Sprint in 12 Hours
>
>
>
>ttp://ats-sprint.blogspot.com/p/rules.html
>
>Please check the rules page... lastest and greatest, to help make it even more fun!!!
>
>And we have 12 hours left, better hurry.
>
>--... ...--
Dale - WC7S in Wy
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>_____
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>SO.. if I tell one of you one radio.. and someone else another... DON'T change the first entry in your log. And if I give each radio its own fair share of airtime..
>I'll be swapping every half hour. hmmm... I better get that arranged well... so I don't lose much time swapping.
>
>Ok.. I'm almost ready.. are you?
>
>See you in less than 24 hours..
>(let's see... "cq ats, cq ats, cq ats... " yep, that works)
>
>Good luck
>
>--... ...--
Dale - WC7S in Wy
>http://ats-sprint.blogspot.com/p/rules.html
>
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9557. Re: [AT_Sprint] ATS-Sprint in 12 Hours

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-21 15:36:10 UTC
From: Eric Castro (VA3AMX)
Topic: 9552 Message: 9557

I am planing to operate my MTR 20/40 but only on 20M. My 40M antenna is down at the moment. Hope propagation gods helps because this week I could barely hear some very weak signals.

Hope to hear you all!

72/73
Eric - VA3AMX

9558. Re: [AT_Sprint] ATS-Sprint in 12 Hours

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 02:39:30 UTC
From: Peter Martin
Topic: 9552 Message: 9558

Well I'm now home and off to bed (0330 L here).
Packed up early as there was nothing doing.

Unfortunately condx were pretty lousy, but at least I made the effort and
went off up the hill in a dark moonless night
The log is short!
K4BAI
N1EU
ND0C
NP4KT
GO3NYY
W2LJ

Mixture of ATS4 and MTR. All contacts on 20M 3 W to vertical EFHW.

Maybe next time it will be easier!

72
Pete
G4ISJ

9559. RE: [AT_Sprint] ATS-Sprint in 12 Hours

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 02:48:43 UTC
From: Dale Putnam
Topic: 9552 Message: 9559

Good Job Peter, we all wish the bands had been better.. maybe next time.. thanks for being there and helping to make this so much fun.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: paradoxpete.pdm@gmail.com
Date: Sun, 22 Jul 2012 03:39:30 +0100
Subject: Re: [AT_Sprint] ATS-Sprint in 12 Hours

Well I'm now home and off to bed (0330 L here).
Packed up early as there was nothing doing.

Unfortunately condx were pretty lousy, but at least I made the effort and went off up the hill in a dark moonless night

The log is short!
K4BAI
N1EU
ND0C
NP4KT
GO3NYY
W2LJ

Mixture of ATS4 and MTR. All contacts on 20M 3 W to vertical EFHW.

Maybe next time it will be easier!

72
Pete
G4ISJ

9560. The First ATS-Sprint is in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 03:11:53 UTC
From: Dale Putnam
Topic: 9552 Message: 9560

I know of at least two European stations, that worked the Sprint, tonight, and likely more.. and there were a number of folks on that I couldn't hear.. but it was so much fun to get on and see all the friends around.. and to play with the rigs.. and just generally have fun on the radio. The bands weren't real good.. but then we stuck them out,anyway. Thank you all for helping to make this a success. It was a lot of fun, and I sure hope we can do it again. I had 17Qs on 20 and 40 with 4 rigs.. and at least 4 times that many friends heard.
--... ...--
Dale - WC7S in Wy

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9561. Re: [AT_Sprint] The First ATS-Sprint is in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 03:38:59 UTC
From: lmlangenfeld tds.net
Topic: 9552 Message: 9561

Not terrific conditions here, and my "wonder wire" antenna was drooping lower than ever after some recent storms. Thus, I only scored 8 Qs (on 20 and 40), but I know I missed a few, too. Thanks to all who were there for an exchange.

Mark -- WA9ETW

On Sat, Jul 21, 2012 at 10:11 PM, Dale Putnam <daleputnam@...>wrote:

> **
>
>
> I know of at least two European stations, that worked the Sprint, tonight,
> and likely more.. and there were a number of folks on that I couldn't
> hear.. but it was so much fun to get on and see all the friends around..
> and to play with the rigs.. and just generally have fun on the radio.
> The bands weren't real good.. but then we stuck them out,anyway.
>
> Thank you all for helping to make this a success. It was a lot of fun, and
> I sure hope we can do it again.
>
> I had 17Qs on 20 and 40 with 4 rigs.. and at least 4 times that many
> friends heard.
>
> --... ...-- Dale - WC7S in Wy
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9562. Re: [AT_Sprint] The First ATS-Sprint is in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 04:02:14 UTC
From: Hank Greeb
Topic: 9552 Message: 9562

Grandkid from Ohio visiting kept me from the AT-Sprint.

Would have liked to exhibit my "Original AT-Sprint" (no suffix) on the air. I've used it for one FOBB, but not very often.

72/73 de n8xx Hg
QRP >99.44% of the time

On 7/21/2012 11:11 PM, Dale Putnam wrote:
>
>
> I know of at least two European stations, that worked the Sprint,
> tonight, and likely more.. and there were a number of folks on that I
> couldn't hear.. but it was so much fun to get on and see all the
> friends around.. and to play with the rigs.. and just generally have
> fun on the radio.
> The bands weren't real good.. but then we stuck them out,anyway.
>
> Thank you all for helping to make this a success. It was a lot of fun,
> and I sure hope we can do it again.
>
> I had 17Qs on 20 and 40 with 4 rigs.. and at least 4 times that many
> friends heard.
>
> --... ...-- Dale - WC7S in Wy

9563. Re: [AT_Sprint] The First ATS-Sprint is in the bag Dale,

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 03:29:03 UTC
From: David Karpiej
Topic: 9552 Message: 9563

Hi Dale,
Worked K4BAI on 20, nothing on 40 but heard Steve WG0AT just befofe 0300. Called but no luck. Rig here is MTR and 85 foot wire / tuner in VT just 1 mile south of VE2.
73,
Dave K1THP

--- On Sat, 7/21/12, Dale Putnam <daleputnam@...> wrote:

From: Dale Putnam <daleputnam@hotmail.com>
Subject: [AT_Sprint] The First ATS-Sprint is in the bag
To: "AT Sprint" <at_sprint@yahoogroups.com>
Date: Saturday, July 21, 2012, 11:11 PM

I know of at least two European stations, that worked the Sprint, tonight, and likely more.. and there were a number of folks on that I couldn't hear.. but it was so much fun to get on and see all the friends around.. and to play with the rigs.. and just generally have fun on the radio.
  The bands weren't real good.. but then we stuck them out,anyway.

Thank you all for helping to make this a success. It was a lot of fun, and I sure hope we can do it again.

I had 17Qs on 20 and 40 with 4 rigs.. and at least 4 times that many friends heard.

--... ...--
Dale - WC7S in Wy

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9564. RE: [AT_Sprint] The First ATS-Sprint is in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 11:28:01 UTC
From: James Rodenkirch
Topic: 9552 Message: 9564

Looks like you had SOME participation, Buddy - congrats on that, even if condx sucked!

To: at_sprint@yahoogroups.com
From: daleputnam@...m
Date: Sat, 21 Jul 2012 21:11:53 -0600
Subject: [AT_Sprint] The First ATS-Sprint is in the bag

I know of at least two European stations, that worked the Sprint, tonight, and likely more.. and there were a number of folks on that I couldn't hear.. but it was so much fun to get on and see all the friends around.. and to play with the rigs.. and just generally have fun on the radio.
The bands weren't real good.. but then we stuck them out,anyway.

Thank you all for helping to make this a success. It was a lot of fun, and I sure hope we can do it again.

I had 17Qs on 20 and 40 with 4 rigs.. and at least 4 times that many friends heard.

--... ...--
Dale - WC7S in Wy

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9565. ATS Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 13:08:34 UTC
From: Dale Putnam
Topic: 9565 Message: 9565

WA5BDU first on 20
AC0BQ
K5LY
K4BAI
AD7AN
K7RYO
WA8BXN
WA9ETW
WA6LTV last on 20
AC0BQ first on 40
WA9ETW
K4BAI
AC0BQ
AC0BQ
AC0BQ
WA5BDU
K4BAI last on 40
What is amazing is that I spent 2 hours on 20 and only the last hour on 40... now I see that was flawed... pretty much a frayed rope. (note to self - hindsight is always better, if you plan on goin backwards from now on) It was great fun to me, to see all the good friends in the log, and others that I could hear, but not get into the log. I suppose the rather large thunderstorm to the north, may have had a little to do with that. I felt there were stations calling... and not getting into my ears. I used four radios.. the original Sprint, (from K0EVZ), the waterproof 3b (otherwise known as the "Yeller Feller", a take off on the PFR3), a MTR, and a TRI-Bander. Conditions seemed long, but noisy, I could just make out the east coast stations, and a couple VEs, but qsb and noise would cover them quickly. Ca stations were not nearly as strong as normal, and qsb was nippin on them too. I'm wondering... past the odd conditions, just how many stations were on, it will be interesting to see the logs, I have 10 unique calls in the log. I'm also wondering, how many different rigs were used. Was I the only one using a TriBander? Where were the PFR3s? Did most everyone go for the ATS mult?Some of this signals were way strong... and the next time I would hear them, they would be weak. That is somewhat typical, I suppose, for this time of year.I am already planning for the next one... wonder when it will be? Thanks to all that made this possible, and that is each and every one of you, even if you tried and didn't make a Q.. thank you all.See you next time, Have a great Sunday,

--... ...--
Dale - WC7S in WyKeep praying, that's the final Q.

9566. RE: [AT_Sprint] The First ATS-Sprint is in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 13:43:03 UTC
From: Dale Putnam
Topic: 9552 Message: 9566

It wasn't a CQ WW event.. but it was fun... and the Yellow Fellow did just fine. I had 10 unique calls.. and heard others.. the bands were crummy.. but.. we did anyway.... in spite of the rtty.. which wasn't too bad. Looked for you.. but didn't hear much outta the west.For that matter, couldn't hear much outta anywhere for quite a while.It was fun, and that's what we aimed at.

--... ...--
Dale - WC7S in Wy
To: at_sprint@yahoogroups.com
From: rodenkirch_llc@...
Date: Sun, 22 Jul 2012 05:28:01 -0600
Subject: RE: [AT_Sprint] The First ATS-Sprint is in the bag

Looks like you had SOME participation, Buddy - congrats on that, even if condx sucked!

To: at_sprint@yahoogroups.com
From: daleputnam@...
Date: Sat, 21 Jul 2012 21:11:53 -0600
Subject: [AT_Sprint] The First ATS-Sprint is in the bag

I know of at least two European stations, that worked the Sprint, tonight, and likely more.. and there were a number of folks on that I couldn't hear.. but it was so much fun to get on and see all the friends around.. and to play with the rigs.. and just generally have fun on the radio.
The bands weren't real good.. but then we stuck them out,anyway.

Thank you all for helping to make this a success. It was a lot of fun, and I sure hope we can do it again.

I had 17Qs on 20 and 40 with 4 rigs.. and at least 4 times that many friends heard.

--... ...--
Dale - WC7S in Wy

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9567. Re: The First ATS-Sprint is in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 13:52:08 UTC
From: f_skinner
Topic: 9552 Message: 9567

I was only able to work 6 stations in about an hour from the local park. Besides the bad band conditions and only bringing my 20 meter antenna the XYL and I enjoyed it. She read a book and I depleted my battery calling CQ. Thanks to the few stations that worked me.

WA5BDU
K4EAY
WV1N
K4BAI
W0CH (I think we tried that QSO three separate times hi hi)
W0UFO

I tried to send my log and score but got a kickback from the email that was listed on the web site. I will try again without the pictures.

72
Frank
K0JQZ

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> It wasn't a CQ WW event.. but it was fun... and the Yellow Fellow did just fine. I had 10 unique calls.. and heard others.. the bands were crummy.. but.. we did anyway.... in spite of the rtty.. which wasn't too bad. Looked for you.. but didn't hear much outta the west.For that matter, couldn't hear much outta anywhere for quite a while.It was fun, and that's what we aimed at.
>
> --... ...--
> Dale - WC7S in Wy
> To: at_sprint@yahoogroups.com
> From: rodenkirch_llc@...
> Date: Sun, 22 Jul 2012 05:28:01 -0600
> Subject: RE: [AT_Sprint] The First ATS-Sprint is in the bag
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> Looks like you had SOME participation, Buddy - congrats on that, even if condx sucked!
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> To: at_sprint@yahoogroups.com
> From: daleputnam@...
> Date: Sat, 21 Jul 2012 21:11:53 -0600
> Subject: [AT_Sprint] The First ATS-Sprint is in the bag
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> I know of at least two European stations, that worked the Sprint, tonight, and likely more.. and there were a number of folks on that I couldn't hear.. but it was so much fun to get on and see all the friends around.. and to play with the rigs.. and just generally have fun on the radio.
> The bands weren't real good.. but then we stuck them out,anyway.
>
> Thank you all for helping to make this a success. It was a lot of fun, and I sure hope we can do it again.
>
> I had 17Qs on 20 and 40 with 4 rigs.. and at least 4 times that many friends heard.
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> --... ...--
> Dale - WC7S in Wy
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9568. Re: [AT_Sprint] The First ATS-Sprint is in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 14:17:12 UTC
From: Johnny Matlock
Topic: 9552 Message: 9568

GM all:
Well it was a lot of fun to say the least.
I kept the ATS4B and the fresh off the bench MTR 40/20 warm to say the least!
The solder on the MTR was still cooling off when the sprint started!!!
I didn't fight with the RTTY boys much!
I had a lot of fun trying to figure out which rig Dale was putting on the air next!!!

Here is my rundown, and I think I missed one of Dales rig swaps at the end?
Looks like 11 as logged with one missed entry from Dale.
Great fun with sweet little rigs!!
72
Johnny AC0BQ

Date Time Freq Mode MyCall Sent Call Rec QTH
Name Pwr
20120722 0004 14060.0 CW AC0BQ 559 WV1N 559 CT
ATS4 5
20120722 0024 7031.0 CW AC0BQ 559 K4BAI 559 GA
ATS4 5
20120722 0035 14059.0 CW AC0BQ 559 WC7S 559 WY
ATS3B 5
20120722 0041 14060.0 CW AC0BQ 559 K0EVZ 599 NM
PFR3 5
20120722 0050 14060.0 CW AC0BQ 559 W2LJ 559 NJ
NONE 5
20120722 0155 7032.0 CW AC0BQ 559 WC7S 559 WY
TB 3
20120722 0203 7032.0 CW AC0BQ 549 AB9CA 559 MI
ATS3 5
20120722 0214 7035.0 CW AC0BQ 55 WA9ETW 559 MI
ATS2 3
20120722 0223 7035.0 CW AC0BQ 550 WC7S 559 WY
3B 5
20120722 0229 7035.0 CW AC0BQ 599 WC7S 599 WY
ATSSP 5
20120722 0240 7035.0 CW AC0BQ 559 K4BAI 559 GA
ATS4 5

On Sat, Jul 21, 2012 at 10:11 PM, Dale Putnam <daleputnam@...>wrote:

> **
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>
> I know of at least two European stations, that worked the Sprint,

> tonight, and likely more.. and there were a number of folks on that I
> couldn't hear.. but it was so much fun to get on and see all the friends
> around.. and to play with the rigs.. and just generally have fun on the
> radio.
> The bands weren't real good.. but then we stuck them out,anyway.
>
> Thank you all for helping to make this a success. It was a lot of fun, and
> I sure hope we can do it again.
>
> I had 17Qs on 20 and 40 with 4 rigs.. and at least 4 times that many
> friends heard.
>
> --... ...-- Dale - WC7S in Wy
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9569. ATS QSO Party

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 15:26:47 UTC
From: Lee Hiers
Topic: 9569 Message: 9569

Wow. Talk about embarrassing. I discovered one of the problems with the ATS rigs last night - when I went to hook up my rig 5 minutes before the start of the contest, I couldn't find it! The doggone thing is so small...and I've got about 8 other Altoids boxes scattered around the shack...the ATS3b was nowhere to be seen! I remembered I'd taken the rig to the mountains over the 4th of July, but still couldn't find it in my suitcase. Hmmm. About 30 minutes into the contest, the rig appeared: zipped into a hidden pocket in my shaving kit!

Off to 20m and....nothing! I looked at QRPSpots and apparently condx were pretty horrible and 20m was already gone for the most part. I did some CQing even though I didn't hear anything...nothing showed up on the reverse beacon network, so off to 40m. And nothing to speak of. I heard a VE3 in QSO with a good signal, but not even much RTTY - none until I got above 7040. I did a little tuning, and a litte CQing. The reverse beacon network was picking me up pretty well, but I wasn't hearing much at all...so I wondered if my RX had a problem. Tuning around, I could hear one or two light QSOs and could even hear 5C13KD...but he couldn't hear me! So at least the RX seems to be working. I finally work NP4KT, but no one else - particularly frustrating since I was seeing a bit of activty on QRPSpots. I even hooked up the FT817 after the contest and tried 5C13KD again - he sounded about the same as on the ATS3b, but still couldn't hear me.

I'm glad some folks were making a few contacts anyway - to be honest, I'm surprised at some of the QSO totals I've seen reported - congrats!

Don't forget to send your logs in to atslogs@... and we'll get the results posted in a few weeks - the logs are starting to roll in - make sure yours is one of 'em!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

9570. AT Sprint in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 15:28:28 UTC
From: William
Topic: 9570 Message: 9570

Well, when I saw the SFI of 89 an A index of 11, I knew it was going to be rough going. Surprisingly the RTTY contest had no impact on my operating. 20 mtrs was the workhorse. Too much QRN on 40. This limited my ability to work local guys.

The guys I worked were:
AC0BQ
K4BAI
W0CH
WA5DBU
K0EVZ
K0JQZ
WB9QDL (has an ATS3 but unaware of contest)
WG0AT

I heard WC7S and WA9ETW but was unable to establish a qso. I heard none of the california or european guys even though I saw them spotted.

I was a little confused when I heard some guys using a TB or PFR. Are they counted as an ATS rig or just a Qrp rig?
In spite of the lousy propagation the test was still fun. It was the first time I heard what my rig sounds like on the air.
I think we should do it again. Maybe in the late fall so that we can better use 40 m.(also Steve will be back) This is a good time for portable ops. We should consider holding it during the week to avoid other contest conflicts and we should limit the bands to 40 and 20 so that we don't dilute ourselves and give the MTR guys a fair shake.

It never ceases to amaze me what this little rig and a bunch of AA batteries can do.

Bill, WV1N

9571. ATS Sprint - empty log

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 15:34:28 UTC
From: bob_nelson_k2qpn
Topic: 9571 Message: 9571

I set up operations at a friend's house in Surf City, NJ. I had my ATS4, MFJ971 tuner, NorCal doublet and an HFp vertical. I could hear plenty of stations around 7030 but nobody for the Sprint. Maybe next time.

2000 to 2300 local time makes it difficult to operate portable. All the parks close at dusk.

73, Bob K2QPN

9572. The First ATS-Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 16:44:38 UTC
From: David Bixler
Topic: 9552 Message: 9572

Hello folks:

I just submitted my log with 7 QSOs. Had only 3 contacts with other ATS rigs, but very good to see participation from other QRP'ers.

No DX, heard here. Missed several possible Q's due to weak signals and/or poor timing on my part with WA6LTV, WA9ETW, AA9AA, W0UFO, WC7S, KB1NFC??.

Thanks for a fun evening. I hope we can do this again!

73,
Dave W0CH
Seneca, MO
ATS-4

9573. Re: [AT_Sprint] The First ATS-Sprint is in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 17:45:21 UTC
From: lmlangenfeld tds.net
Topic: 9552 Message: 9573

Interestingly enough, the strongest sigs all night on 20 belonged to W0UFO -- the WI/MN path seemed awfully short at the time, but who's to know? I also heard Bill in QSO on 40, similarly strong, but never heard him again after that (so, no QSO on the lower band). Doc was loud here on both bands, too, but he couldn't seem to hear me well enough to close the deal. Everyone else was well down by comparison, some farther than others. Deep QSB and a fairly high noise level complicated matters.

Qs in the book:

20: WC7S, AD7AN, W2LJ, K4BAI and W0UFO.

40: K4BAI, WC7S and AC0BQ,

Das ist alles.

72,

Mark -- WA9ETW

P.S. A couple of folks (on both bands) made pretty big moves to answer my calls, so I suspect something has happened to shift my XMIT freq off my RCVR freq by a bit. (No, the SPLIT function was not enabled.) I'll have to check that out. Sorry to those inconvenienced.

9574. Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 17:59:36 UTC
From: Hank Greeb
Topic: 9552 Message: 9574

How about encouraging owners of one of the rigs designed by Steve, KD1JV to try their hand at a "real contest." The next one is a "medium size, not totally hard core" event, namely the North American QSO party (CW) on 1800Z August 4 to 0600Z August 5, 2012 (First full weekend in August). Rules for the NAQP are at http://www.ncjweb.com/naqprules.php

I suspect that most all of the rigs designed by Steve have the same RF/IF chain, which would put the rigs at considerable disadvantage to the other participants of the QSO party, but the contest is limited to 100 watts or less, so there would be only ~ 13 dB disadvantage for the transmitter side of the equation.

I'd be willing to bet a dollar to a donut that even a mediocre op like me, with a mediocre antenna like me, and a "so-so" receiver like my AT-Sprint (no suffix) could work more than 100 Q's in the 10 hours permitted by the rules.

A "good op" with a "reasonable antenna" and one of the later AT-Sprint rigs (so 80 and 15 metres could be used), should do even better.

If there's any interest in doing so, I'll put my AT-Sprint to the test, and see whether I have good (or bad) prediction capability.

72/73 de n8xx Hg
QRP >99.44% of the time

9575. Re: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 18:52:41 UTC
From: Lee Hiers
Topic: 9552 Message: 9575

On Jul 22, 2012 at 1:59 PM, Hank Greeb <n8xx@...> wrote:

> I suspect that most all of the rigs designed by Steve have the same RF/IF
> chain, which would put the rigs at considerable disadvantage to the other
> participants of the QSO party, but the contest is limited to 100 watts or
> less, so there would be only ~ 13 dB disadvantage for the transmitter side
> of the equation.
>
They also have a QRP category I believe.

> If there's any interest in doing so, I'll put my AT-Sprint to the test,
> and see whether I have good (or bad) prediction capability.
>
The NAQP has a team competition...If we can put together one full team (10 ops) that will use AT-rigs in next month's contest, I'd be up for it. I would think 100 QSOs is definitely do-able.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Join the ATS QSO Party!
ats-sprint.blogspot.com

9576. Re: ATS Sprint - empty log

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 19:01:02 UTC
From: k6jf_radio
Topic: 9571 Message: 9576

Ditto here, tried 20m and 40m. Not only did I not work anyone, I heard very, very few sigs on either band. Maybe next time.

Jim K6JF
ATS-3B

9577. ATS QSO Party Logs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 19:10:40 UTC
From: Lee Hiers
Topic: 9577 Message: 9577

Get them in folks! I just added a page to the site that shows logs received.

http://ats-sprint.blogspot.com/p/logs-received.html

Logs to atslogs@...

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

9578. Re: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 19:12:07 UTC
From: Hank Greeb
Topic: 9552 Message: 9578

Lee:

Yup, there's a "QRP Noted" category, and the writeups always feature the Top 5 (or 10 if participation is great enough of QRPers) top QRP ops. AND, all scores from those who operate with <5 watts are noted with an (*) asterisk in the general score listing.

The teams may be from 2 to 5 ops per team, but if we'd have 10 who wanted to join, we could make two teams (or even three or more, if enough participation)

From the NAQP rules:

14. Team Competition: You may wish to form a team with fellow NAQP participants. If so, your team must consist of two to five single-operator stations whose individual scores are combined to produce a team score. Although clubs or other groups having more than five members may form multiple teams, there are no distance or meeting requirements for a team entry.

Teams must be registered prior to the start of the contest.

Note that many of the contest clubs/groups have both "full timers" and "part timers" in their teams - so if you can participate for part time, that would be FB with the contest.

AT-Sprint Team # 1: AA4GA, Op # 2 (is that you?), Op #3 (is that you?), Op #4 (is that you?), N8XX
AT-Sprint Team # 2 - wide open if the above gets filled.

I'd be willing to register the teams. Just send your interest to me, listing full or part time.

My philosophy is that if we QRP ops were to partook of more "real contests" we could dispel some of the myths amongst the contest community such as "life is too short for QRP," etc.

72/73 de n8xx Hg
QRP >99.44% of the time

On 7/22/2012 2:52 PM, Lee Hiers wrote:
>
>
> On Jul 22, 2012 at 1:59 PM, Hank Greeb <n8xx@...
> <mailto:n8xx@...>> wrote:
>

> I suspect that most all of the rigs designed by Steve have the
> same RF/IF chain, which would put the rigs at considerable
> disadvantage to the other participants of the QSO party, but the
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>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com <http://www.aa4ga.com>
>
> Join the ATS QSO Party!
> ats-sprint.blogspot.com <http://ats-sprint.blogspot.com>

9579. RE: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 19:13:49 UTC
From: James Rodenkirch
Topic: 9552 Message: 9579

In addition to Hank's fine suggestion, how about the upcoming QRP ARCI Fall Qso Party in October - 1200Z on 13 October 2012 through 2400Z on 14 October 2012. We have Multi-Op and Team categories that might work out well for groups of the ATS rig ops. For the Multi-Op category, a multioperator effort may submit logs for a separate category so you could enter as a Multi-Op, All Band or Single Band. Any combination of operators and transmitters will be permitted although all transmitters must be located at a centralized location and all operators must use the same callsign in the multioperator category. For the Team category, you may enter as a team with an unlimited number of operators as long as no more than 5 transmitters are on the air concurrently.
You compete individually as well as on the team and teams need not be in the same location. Team captains must send a list of members to the Contest Manager
before the contest. I think that would be a great contest for ATS-centric groups to get togther and compete....72, Jim Rodenkirch K9JWV QRP ARCI Contest Manager

To: AT_Sprint@yahoogroups.com
From: n8xx@...
Date: Sun, 22 Jul 2012 13:59:36 -0400
Subject: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

How about encouraging owners of one of the rigs designed by Steve, KD1JV to try their hand at a "real contest." The next one is a "medium size, not totally hard core" event, namely the North American QSO party (CW) on 1800Z August 4 to 0600Z August 5, 2012 (First full weekend in August). Rules for the NAQP are at http://www.ncjweb.com/naqprules.php

I suspect that most all of the rigs designed by Steve have the same RF/IF chain, which would put the rigs at considerable disadvantage to the other participants of the QSO party, but the contest is limited to 100 watts or less, so there would be only ~ 13 dB disadvantage for the transmitter side of the equation.

I'd be willing to bet a dollar to a donut that even a mediocre op like me, with a mediocre antenna like me, and a "so-so" receiver like my AT-Sprint (no suffix) could work more than 100 Q's in the 10 hours permitted by the rules.

A "good op" with a "reasonable antenna" and one of the later AT-Sprint rigs (so 80 and 15 metres could be used), should do even better.

If there's any interest in doing so, I'll put my AT-Sprint to the test, and see whether I have good (or bad) prediction capability.

72/73 de n8xx Hg

QRP >99.44% of the time

9580. Re: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 19:19:32 UTC
From: Lee Hiers
Topic: 9552 Message: 9580

On Sun, Jul 22, 2012 at 3:12 PM, Hank Greeb <n8xx@...> wrote:

The teams may be from 2 to 5 ops per team, but if we'd have 10 who wanted
> to join, we could make two teams (or even three or more, if enough
> participation)
>
Good deal - I forgot it was 5 per team - it's 10 per team for the Sprints.
We could field two or three teams then!

AT-Sprint Team # 1: AA4GA, Op # 2 (is that you?), Op #3 (is that you?), Op
> #4 (is that you?), N8XX
> AT-Sprint Team # 2 - wide open if the above gets filled.
>
> I'd be willing to register the teams. Just send your interest to me,
> listing full or part time.
>
OK Hank, sounds like you're in charge!

My philosophy is that if we QRP ops were to partook of more "real contests"
> we could dispel some of the myths amongst the contest community such as
> "life is too short for QRP," etc.
>
Contesting is mostly what I do, and find it a great time to make a lot of
contacts...I find operating with 5 watts quite fun, even in the DX contests
dominated by 1.5KW stations.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Join the ATS QSO Party!
ats-sprint.blogspot.com

9581. RE: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 19:42:39 UTC
From: Dale Putnam
Topic: 9552 Message: 9581

Alrighty! This sounds like fun.. can we use two radios? Like an AT4 and a Tri-bander? Steve designed them both.?I'd be interested either way... We could have a blast .. and get a little qrp advertising too.!!

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: lee.hiers@...
Date: Sun, 22 Jul 2012 15:19:32 -0400
Subject: Re: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

On Sun, Jul 22, 2012 at 3:12 PM, Hank Greeb <n8xx@...> wrote:

The teams may be from 2 to 5 ops per team, but if we'd have 10
who wanted to join, we could make two teams (or even three or
more, if enough participation)
Good deal - I forgot it was 5 per team - it's 10 per team for the Sprints. We could field two or three teams then!

AT-Sprint Team # 1: AA4GA, Op # 2 (is that you?), Op #3 (is that you?), Op #4 (is that you?), N8XX

AT-Sprint
Team # 2 - wide open if the above gets filled.

I'd be willing to register the teams. Just send your interest
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My philosophy is that if we QRP ops were to partook of more
"real contests" we could dispel some of the myths amongst the
contest community such as "life is too short for QRP," etc.Contesting is mostly what I do, and find it a great time to make a lot of contacts...I find operating with 5 watts quite fun, even in the DX contests dominated by 1.5KW stations.

73 de Lee--
Lee Hiers, AA4GA
www.aa4ga.com

Join the ATS QSO Party!ats-sprint.blogspot.com

9582. RE: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 22:21:02 UTC
From: Milton A Riutort
Topic: 9552 Message: 9582

People, this sound good and fun, but you need to stablished specific goals and take care of one of the very delicate thing, the Logging system.

In my (very limited) experience contesting (only QRP) with my Elecraft rigs, I found few things. The logging is very important and not an easy task if your are not well connecting your radio and the computer. This is not possible with the ATS radios, not sure, but... So, the logging process need attention.

Second, the Strategy to follow. I sometimes keep moving up and down the band looking for multipliers instead of keep calling CQ on the same frequency. But if the condition and antennas are good, keep working on the same frequency making QSO is also good. Don't think the low power signal is not good making the pile-up. But I usually keep looking for multipliers and this is hard to log correct if the radio is not well connected to the logging system.

Ok, I sound to serious, don't take me wrong, but this need attention because the ATS limitations while operating at this level of complexity, make things hard to solve.

Believe me, working QRP make contesting a very full of emotions experience. Great!

Best 73,
Milton
NP4KT

Sent from my iPhone

9583. Re: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 22:55:23 UTC
From: Hank Greeb
Topic: 9552 Message: 9583

Milton:

You're talking like many of my "big gun" contesting friends. I'm at "newbie" or "LID" level in their way of thinking. I suspect you're talking about the Rig controlling the frequency, etc. which appears on the computer logging software. IF you want this level of sophistication, you have a point. But, to do so is serious contesting. I can imagine that these data appear somewhere inside the AT-Sprint series of rigs, and someone like Steve, KD1JV could inform a "serious contester" where to find the info.

But this level of sophistication isn't necessary. Logging system can be as easy as paper and pen. I used paper and pen(cil) between 1951 and 1985 or so, when I started logging with a homebrew program within LOTUS 123 with my HP-110+ laptop.

Running 100 to 200 Q's in a contest could be logged with quill and papyrus, or with a logging computer not at all connected to the rig. I've used a bug (that's my preferred method if I don't have a computer connected to the rig), and a J-38 hand pump in "winning category" State QSO parties. One very easy program is the W3KM "General Logger" which has ability to run most contests, but which does NOT interface with the frequency and mode within the computer. And, it's FREE!

I haven't tried connecting the computer to the AT-Sprint rig for keying, which I typically do with my Drake TR-5. I'll try it before the Flight of the Bumblebees next weekend.

So, to the assembled multitude, "give it a try" - you may like doing QRP in the NAQP CW in August.

72/73 de n8xx Hg

p.s. May be count on you to be a part of an AT-Sprint team for NAQP CW?

On 7/22/2012 6:21 PM, Milton A Riutort wrote:
> People, this sound good and fun, but you need to stablished specific goals and take care of one of the very delicate thing, the Logging system.
>
> In my (very limited) experience contesting (only QRP) with my Elecraft rigs, I found few things. The logging is very important and not an easy task if your are not well connecting your radio and the computer. This is not possible with the ATS radios, not sure, but... So, the logging process need attention.
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> Second, the Strategy to follow. I sometimes keep moving up and down the band looking for

multipliers instead of keep calling CQ on the same frequency. But if the condition and antennas are good, keep working on the same frequency making QSO is also good. Don't think the low power signal is not good making the pile-up. But I usually keep looking for multipliers and this is hard to log correct if the radio is not well connected to the logging system.
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> Ok, I sound to serious, don't take me wrong, but this need attention because the ATS limitations while operating at this level of complexity, make things hard to solve.
>
> Believe me, working QRP make contesting a very full of emotions experience. Great!
>
> Best 73,
> Milton
> NP4KT

9584. Re: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-23 01:36:36 UTC
From: Lee Hiers
Topic: 9552 Message: 9584

On Sun, Jul 22, 2012 at 6:21 PM, Milton A Riutort
<milton.riutort@...>wrote:
>
> The logging is very important and not an easy task if your are not well
> connecting your radio and the computer. This is not possible with the ATS
> radios, not sure, but... So, the logging process need attention.
>
No, the ATS rig can't communicate frequency to the logging computer, but
that's not a big problem really. A much bigger limitation is the bands
available, especially to MTR and older ATS users. One of the important
things to maximize in the NAQP is multiple
QSOs with each station - the ability to operate multiple bands is very
beneficial.

But I'm not looking to necessarily be at the top of the QRP listings - I'm
wanting to showcase QRP contesting as well as Steve's rigs. That said,
I'll still want to do as well as I can with the time I have available.

> But I usually keep looking for multipliers and this is hard to log correct
> if the radio is not well connected to the logging system.
>
I don't understand this comment - really the only thing I can see missing
out on while looking for mults is the band map - you're not talking about
being connected to the cluster and the ability to click on calls in the
band map to QSY, are you?

> Ok, I sound to serious, don't take me wrong, but this need attention
> because the ATS limitations while operating at this level of complexity,
> make things hard to solve.
>
Definitely, the ATS rig is limited in a multi-band contest...but it is a
capable rig, and we can still have a lot of fun with an all-ATS team! I
hope we'll have a Puerto Rico station on one of the teams! ;-)

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

9585. MTR Android and PSK/RTTY

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 23:26:59 UTC
From: Wayne
Topic: 9585 Message: 9585

Hi all,

I know that the MTR and other AT rigs, being CW rigs, will not accept SSB based AFSK digital modes, but Pocketdigi gets around this problem. My challenge is that I have an android device, which will obviously not run Pocketdigi. Is anyone aware of efforts to either port it to Android or a separate Android effort for either RTTY and/or PSK?

The last topic I found on this forum still contemplated trying to get a PocketPC device, but this is now a dead platform. Many of us would have either an idevice or an Android device.

73 de Wayne VK3WAM

9586. RE: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 18:42:44 UTC
From: Paul Meier
Topic: 9552 Message: 9586

The thing I like about this type of contest or sprint is there wouldn't be any computer to computer contacts. The ATS group is hand sent code and logging pretty much! That would probably eliminate many contesters!!

Paul K7PM

9587. Re: ATS Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-22 18:58:03 UTC
From: Timothy Gordish
Topic: 9565 Message: 9587

I started set up of the ATS-2 on the back deck with my EndFedz 10/20/40 five minutes after the contest started. The rig was powered by the six internal AAA batteries left over from field day. First contact was W0CH at about 00:23.

Total of only 4 contacts made, all on twenty. Tried 40, and changed out the batteries, but didn't even hear any on 40 at my West Montana QTH. I love this little rig. Perfect for portable operations, even if it is just the back deck.

Tim
AD7AN

9588. Re: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-23 02:50:22 UTC
From: Lee Hiers
Topic: 9552 Message: 9588

On Sun, Jul 22, 2012 at 2:42 PM, Paul Meier <PMDesign@...> wrote:

The thing I like about this type of contest or sprint is there wouldn’t be
> any computer to computer contacts. The ATS group is hand sent code and
> logging pretty much!
>

Oh, I'll be using the computer for sending!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to
aa4ga.comand click on "QRP DXCC" for more info!

9589. Re: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-23 03:24:43 UTC
From: Mike WA8BXN
Topic: 9552 Message: 9589

My goal in sprints/contests is not to win. Rather my pleasure is to see what contacts I can make using simple gear. I am easily amazed and pleased with my results.

73/72 - Mike WA8BXN

9590. Re: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-23 21:10:59 UTC
From: Hank Greeb
Topic: 9552 Message: 9590

IF you're operating Single Operator (either one or two rigs), you MAY NOT use DX Clusters nor the Reverse Beacon Skimmers. Using such op aids moves you to Multi-Op, which eliminates you from being a part of a team..

Ability to utilize 15 through 80 would make a later ATS-3b or ATS-4 the "best" rig, but much of the activity (on recent NAQP's, at least) has been on 40 and 20. Sunspots are more favorable, of course, so one might add quite a few mults on 15. 80 is frequently noisy even after dark during the summer time. Even with the MTR, you could set one for 15 and 80, and another for 20 and 40 metres (or some other combo

72/73 de n8xx Hg

On 7/22/2012 9:36 PM, Lee Hiers wrote:
> <snip>
>
> But I usually keep looking for multipliers and this is hard to log
> correct if the radio is not well connected to the logging system.
>
> I don't understand this comment - really the only thing I can see
> missing out on while looking for mults is the band map - you're not
> talking about being connected to the cluster and the ability to click
> on calls in the band map to QSY, are you?
>
> <snip>

9591. Re: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-23 21:12:22 UTC
From: Hank Greeb
Topic: 9552 Message: 9591

Dale:

If you want to be considered single op, which is a requirement for being on a team, you must be the only operator, but you may listen to as many rigs simultaneously as you wish.. You may NOT transmit two signals at once, but many contesters use "single op, two radios" (SO2R) so they can listen on one band, and try to pick up multipliers on another band. They split the audio - one rig on the left ear, the other on the right ear. I've never tried it, but some folks think it's the "cat's meow."

There's no mention of SO2R in the rules, so I'd assume it's permitted. For single operator stations, there's no limit on the number of band changes you may have in the contest. There IS a limit for Multi-Two operation - don't ask me why.

You may switch radios at any time. I think you said you had five or more of the rigs designed by KD1JV, so you could run each for a portion of the contest.

May we count you in for a team?

72/73 de n8xx Hg

On 7/22/2012 3:42 PM, Dale Putnam wrote:
>
>
> Alrighty! This sounds like fun.. can we use two radios? Like an AT4
> and a Tri-bander? Steve designed them both.?
>
> I'd be interested either way...
>
> We could have a blast .. and get a little qrp advertising too.!!
>
>
> --... ...-- Dale - WC7S in Wy

9592. RE: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-23 22:33:21 UTC
From: Dale Putnam
Topic: 9552 Message: 9592

Hi Hank, I'd like to, don't have any issues' with SO2R... if I am well enough rested, that sometimes works. For this, I'd likely stay withjust 4... I only have 9 of his designs, but I don't have 9 decent antennas, I have four, maybe 5.. depends on the prop princess.Sure, count me in... that should be a lot of fun... can we keep each other jazzed up with emails in the middle? Not spotting.. that wouldn't be good... but just.. simple things like.. what's your rate now.. are you doing any good S&P? heard you on XX a few minutes ago, where'd the band go?would that work?As long as the team doesn't get unhappy if I run.. on a good band... rather than S&P... and I can use a puter for logging?Just so I don't slip up, can you keep me reminded, you know, which contest, when.. Thank you, this should be a blast...

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: n8xx@...g
Date: Mon, 23 Jul 2012 17:12:22 -0400
Subject: Re: [AT_Sprint] Another suggestion for owners of the AT-Sprint series and offshoots thereof

Dale:

If you want to be considered single op, which is a requirement for being on a team, you must be the only operator, but you may listen to as many rigs simultaneously as you wish.. You may NOT transmit two signals at once, but many contesters use "single op, two radios" (SO2R) so they can listen on one band, and try to pick up multipliers on another band. They split the audio - one rig on the left ear, the other on the right ear. I've never tried it, but some folks think it's the "cat's meow."

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On 7/22/2012 3:42 PM, Dale Putnam
wrote:

Alrighty! This sounds like fun.. can we use two
radios? Like an AT4 and a Tri-bander? Steve designed them both.?

I'd be interested either way...

We could have a blast .. and get a little qrp advertising too.!!

--... ...-- Dale - WC7S in Wy

9593. MTR? Any more? How much?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-24 14:42:19 UTC
From: Tom
Topic: 9593 Message: 9593

Will there be another run of MTRs? How much were they first run?

73
W0EA
TJ

9594. Re: [AT_Sprint] MTR? Any more? How much?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-24 15:41:49 UTC
From: Bob Confrey
Topic: 9593 Message: 9594

Tom,
I have a 40/20 MTR built that I'm thinking of selling. Let me
know if you might be interested.....Bob....WA1EDJ, Monroe GA.....

On Tue, Jul 24, 2012 at 10:42 AM, Tom <tom.campie@...> wrote:
> Will there be another run of MTRs? How much were they first run?
>
> 73
> W0EA
> TJ
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

9595. QST QST QST Team members needed for NAQP (CW) August 4/5

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-24 19:17:11 UTC
From: Hank Greeb
Topic: 9552 Message: 9595

A few of us have decided that we'd partake of the North American QSO party (CW) "en-masse" with rigs which were designed by Steve, KD1JV. This event is a "medium size" contest, with 100 watts maximum power, so QRPers will only be at a 13 dB disadvantage instead of -23dB for those contests which involve a "full gallon" category. Bands are 160 thru 10 metres, though most activity recently has been on 80 thru 20 metres. This year it runs from1800Z August 4 to 0600Z August 5, 2012 (First full weekend in August).

The rigs which Steve designed include the AT-Sprint series (AT-Sprint, AT-Sprint-2, AT-Sprint 3, 3a, 3b, AT-Sprint 4, Mountain Top Radio (MTR), and several more. Dale, WC7S says he has 9 versions of rigs made by Steve.

Rules for the NAQP are at http://www.ncjweb.com/naqprules.php

Anyway, I'm in the process soliciting suckers..... errr. volunteers, who have one or more of this kind of rig, and who would be willing to "give it the olde college try" at the NAQP.

So far, for "AT-Sprint Team #1" we have WC7S, AA4GA, and me (N8XX). A "full team" is 5 operators, so we're looking for at least 2 more suckers.... errr, volunteers, to round out the first team. If we have more suckers.... errr, volunteers, we may enter as many teams as we have volunteers to fill them.

Note: You needn't be a die hard contest op, you needn't put in a full 10 hours (i.e. "part timers" are fine). There will be plenty of entrants to the contest, so you shouldn't run out of contacts.

Please advise if you're available, an apologies to whomever I missed.

72/73 de n8xx Hg

9596. Re: [AT_Sprint] MTR? Any more? How much?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-24 17:27:59 UTC
From: TJ Campie
Topic: 9593 Message: 9596

I'd certainly be interested in a non-built MTR if anybody has one!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Jul 24, 2012 at 10:41 AM, Bob Confrey <bobc784@...> wrote:

> **
>
>
> Tom,
> I have a 40/20 MTR built that I'm thinking of selling. Let me
> know if you might be interested.....Bob....WA1EDJ, Monroe GA.....
>
>
> On Tue, Jul 24, 2012 at 10:42 AM, Tom <tom.campie@...> wrote:
> > Will there be another run of MTRs? How much were they first run?
> >
> > 73
> > W0EA
> > TJ
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
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>

9597. RE: [AT_Sprint] MTR? Any more? How much?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-24 21:38:17 UTC
From: Robin Kidd
Topic: 9593 Message: 9597

I have an unbuilt MTR that I could let go for $110, if interested.

72/73,

Robin

W4IEN

<mailto:w4ien@...> w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of TJ Campie
Sent: Tuesday, July 24, 2012 13:28
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MTR? Any more? How much?

I'd certainly be interested in a non-built MTR if anybody has one!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Jul 24, 2012 at 10:41 AM, Bob Confrey <bobc784@...> wrote:

Tom,
I have a 40/20 MTR built that I'm thinking of selling. Let me
know if you might be interested.....Bob....WA1EDJ, Monroe GA.....

On Tue, Jul 24, 2012 at 10:42 AM, Tom <tom.campie@...
<mailto:tom.campie%40gmail.com> > wrote:

> Will there be another run of MTRs? How much were they first run?
>
> 73
> W0EA
> TJ
>
>
>

> ----------
>

> Yahoo! Groups Links
>
>
>

9598. RE: [AT_Sprint] MTR? Any more? How much?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-24 22:54:20 UTC
From: w4ien@comcast.net
Topic: 9593 Message: 9598

********** SOLD **********

Original Message:

From: Robin Kidd w4ien@...
Date: Tue, 24 Jul 2012 17:38:17 -0400
To: AT_Sprint@yahoogroups.com
Subject: RE: [AT_Sprint] MTR? Any more? How much?

I have an unbuilt MTR that I could let go for $110, if interested.

72/73,

Robin

W4IEN

<mailto:w4ien@...> w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of TJ Campie
Sent: Tuesday, July 24, 2012 13:28
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MTR? Any more? How much?

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TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

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<mailto:tom.campie%40gmail.com> > wrote:

> Will there be another run of MTRs? How much were they first run?
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> 73
> W0EA
> TJ
>
>
>

> ----------
>
> Yahoo! Groups Links
>
>
>

---
mail2web.com ☐ Enhanced email for the mobile individual based on Microsoft® Exchange - http://link.mail2web.com/Personal/EnhancedEmail

9599. 50 in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 00:52:55 UTC
From: lmlangenfeld tds.net
Topic: 9599 Message: 9599

*Holy smoke! I just now noticed that today begins my 51st year in amateur radio. *
**
72,
**
Mark -- WA9ETW

9600. Re: [qfox] 50 in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 00:55:55 UTC
From: Larry Makoski
Topic: 9599 Message: 9600

On 7/24/2012 8:52 PM, lmlangenfeld tds.net wrote:
> *Holy smoke! I just now noticed that today begins my 51st year in
> amateur radio. *
> **
> *72,*
> **
> *Mark -- WA9ETW*
>

Now THAT'S something to congratulate!

FB on the Anniversary, Mark!

72 de Larry W2LJ

--
73 de Larry W2LJ
QRP - When you care to send the very least!

http://w2lj.blogspot.com/
http://www.w2lj.qrpradio.com/

9601. Re: [qfox] 50 in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 01:06:05 UTC
From: Gil WA5YKK
Topic: 9599 Message: 9601

Mark;;

Good news, now just look forward to 54 years and counting.... and hope
you keep up your CW skills!

73's de Gil WA5YKK

On 7/24/2012 8:52 PM, lmlangenfeld tds.net wrote:
> *Holy smoke! I just now noticed that today begins my 51st year in
> amateur radio. *
> **
> *72,*
> **
> *Mark -- WA9ETW*

Now THAT'S something to congratulate!

FB on the Anniversary, Mark!

72 de Larry W2LJ

9602. Re: [AT_Sprint] 50 in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 01:06:29 UTC
From: Johnny Matlock
Topic: 9599 Message: 9602

Congratulation Mark!
Keep pounding the brass!
72 73
Johnny AC0BQ

On Tue, Jul 24, 2012 at 7:52 PM, lmlangenfeld tds.net
<lmlangenfeld@...>wrote:

> **
>
>
> *Holy smoke! I just now noticed that today begins my 51st year in
> amateur radio. *
> **
> *72,*
> **
> *Mark -- WA9ETW*
>
>
>

9603. ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 02:34:05 UTC
From: w4ien@comcast.net
Topic: 8520 Message: 9603

Does anyone have an ATS-4B that is already built they are willing to sell. My
eyes just will not let me work with the surface mount stuff. Please let me know
if you are willing to part with one.

Robin
W4IEN
w4ien@comcast.net
678-488-9655

---

mail2web.com ☐ Enhanced email for the mobile individual based on Microsoft® Exchange - http://link.mail2web.com/Personal/EnhancedEmail

9604. Rotary encoder kit for ATS radios - shipping and delivery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 12:57:03 UTC
From: Petr
Topic: 9604 Message: 9604

Hello folks,

according to last talk to Miroslav (Rotary encoder kit father) there are still coming some orders/payment with improper kit prices. As I even found on the internet few of the kits for sale for the higher price and I decided to re-post the original message from Miroslav to avoid mismatches...

"Hello,
I would like to inform you that the kits of rotary encoders for ATS are ready. The price remains the same 25 USD for one kit. The shipping cost is 5 USD for one kit, 6 USD for two kits and 7 USD for three wordwide. You can send the payment to my Paypal account diy4funatgmaildotcom.

Please put the version of your ATS into the payment note, because I have two different firmware for ATS-3 and ATS-4. Slightly modified and improved s/w version is dedicated for ATS-4 now.

If you want to send the kit to different address than you have in your Paypal account, please let me know either in payment note nor in email.

Thank you.
Best regards
Miroslav"

I hope that it will help You.

73 - Petr, OK1RP

9605. MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 13:00:01 UTC
From: TJ Campie
Topic: 9605 Message: 9605

So thanks to the group, I have an MTR on the way - I saw some GREAT pictures in the photo section and I'm going to start looking for a case for mine. Any suggestions? I have an altoids tin I've been saving but I'd prefer something more polished.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

9606. Re: [AT_Sprint] MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 13:07:46 UTC
From: Lee Hiers
Topic: 9605 Message: 9606

On Wed, Jul 25, 2012 at 9:00 AM, TJ Campie <tom.campie@...> wrote:

> I saw some GREAT pictures in the photo section and I'm going to start
> looking for a case for mine. Any suggestions? I have an altoids tin I've
> been saving but I'd prefer something more polished.
>
I would say Altoids tin...the MTR is designed to fit one. Steve has hiked
thousands of miles with an ATS rig in an Altoids box and says they hold up
fine. You could look for a fancy tin like I've got, I think it's
relatively polished:
http://1.bp.blogspot.com/-Ui29ymKIZEo/T6iYaByeR-I/AAAAAAAAAfE/pZRX6G6Eiko/s1600/IMAG0197.jpg

American Morse has a heavier duty box that is nice, especially for the ATS
rigs with band modules, so it may not be appropriate for the MTR, not sure.
Plus, he's been out of stock for a while: http://americanmorse.com/aa1.htm

I think there are some clear-topped Altoids-esque cases out there as well -
they may be a little beefier, but I haven't done an A-B comparison. Not
sure where you get those...

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to
aa4ga.comand click on "QRP DXCC" for more info!

9607. Fox FOXHUNT Thurs evening

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 13:16:15 UTC
From: Dale Putnam
Topic: 9607 Message: 9607

Dave - N1IX and I will be your FOXii for the Hunt Thursday evening 7pm MT, or Friday morning, at 0100z .We will be between 14.050 and 14.070 for the fun-est 90 minutes in radio. (No.. I didn't flunk English, it's called author's privilege.)Come and grab a pelt (Qso) with fox and enjoy testing the prop princess.. and her moodiness.We exhange RST-State-Name-Pwr (5 watts or less). I'm thinking about using a 9v transistor battery with 5 watts out, to any of the antennas, including 3 - 360 foot doublets at 50 foot, a vertical on a 1:12 pitch roof, or a 100ft edz at 40 ft.a switch allows quick selection to maximize the effect of whoopin' up on the prop princess. (yeah, I know.. another A.P) So.. let's all gather round, have a blast, and swap tails of the chase.. or would that be... the tale of the chase..... ??? Good Luck to all and to each a fresh plucked pelt. check the rules out at http://www.qrpfoxhunt.org Have a great day,

--... ...--
Dale - WC7S in Wy

9608. RE: [AT_Sprint] MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 13:34:34 UTC
From: Dale Putnam
Topic: 9605 Message: 9608

The American-Morse case is heavier and will allow you to sit on it, or walk on it if you just must.Much easier to make holes in, although I haven't figured out a real good way of making square holes yet. Any ideas?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: lee.hiers@gmail.com
Date: Wed, 25 Jul 2012 09:07:46 -0400
Subject: Re: [AT_Sprint] MTR Cases?

On Wed, Jul 25, 2012 at 9:00 AM, TJ Campie <tom.campie@...> wrote:

I saw some GREAT pictures in the photo section and I'm going to start looking for a case for mine. Any suggestions? I have an altoids tin I've been saving but I'd prefer something more polished.

I would say Altoids tin...the MTR is designed to fit one. Steve has hiked thousands of miles with an ATS rig in an Altoids box and says they hold up fine. You could look for a fancy tin like I've got, I think it's relatively polished: http://1.bp.blogspot.com/-Ui29ymKIZEo/T6iYaByeR-I/AAAAAAAAAfE/pZRX6G6Eiko/s1600/IMAG0197.jpg

American Morse has a heavier duty box that is nice, especially for the ATS rigs with band modules, so it may not be appropriate for the MTR, not sure. Plus, he's been out of stock for a while: http://americanmorse.com/aa1.htm

I think there are some clear-topped Altoids-esque cases out there as well - they may be a little beefier, but I haven't done an A-B comparison. Not sure where you get those...

73 de Lee--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.com and click on "QRP DXCC" for more info!

9609. Holes in Altoids Tins...was: Re: [AT_Sprint] MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 13:50:37 UTC
From: Lee Hiers
Topic: 9609 Message: 9609

On Wed, Jul 25, 2012 at 9:34 AM, Dale Putnam <daleputnam@...> wrote:

Much easier to make holes in, although I haven't figured out a real good
> way of making square holes yet. Any ideas?
>

Not square holes (I don't use the display on my ATS3b), but for the round
holes in Altoids tins, I've been relatively successful using a grinder bit
on my Dremel after placing a pilot hole.

Just FWIW.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to
aa4ga.comand click on "QRP DXCC" for more info!

9610. Re: Holes in Altoids Tins...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 14:20:48 UTC
From: cloud runner
Topic: 9610 Message: 9610
Attachments: 1 described; binary payloads are missing from this source WARC

The square hole is easy enough IF you get a tiny jewler's saw. This uses a tinsy blade.

I drill a center hole, and cut the diagonals, then fold back the triangles making a square hole with no jagged edges.

Also, instead of grinding pilot holes larger, I simply push a nail punch into the hole to enlargen. makes for rounded edges to the round hole.

73 Fred - kt5x

aka WS0TA

----- Original Message -----
From: Lee Hiers
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, July 25, 2012 7:50 AM
Subject: Holes in Altoids Tins...was: Re: [AT_Sprint] MTR Cases?

On Wed, Jul 25, 2012 at 9:34 AM, Dale Putnam <daleputnam@...> wrote:

Much easier to make holes in, although I haven't figured out a real good way of making square holes yet. Any ideas?

Not square holes (I don't use the display on my ATS3b), but for the round holes in Altoids tins, I've been relatively successful using a grinder bit on my Dremel after placing a pilot hole.

Just FWIW.

73 de Lee
--
Lee Hiers, AA4GA

www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.com and click on "QRP DXCC" for more info!

9611. Re: Holes in Altoids Tins...was: Re: [AT_Sprint] MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 14:24:12 UTC
From: Wayne Dillon
Topic: 9609 Message: 9611

I too have been "Altoidizing" some smaller projects and finally broke down
and purchased a punch from Grizzley. Make putting holes in these tasty
little tins,
Also, FWIW.
God Bless es 72/3 de Wayne - KC0PMH

On Wed, Jul 25, 2012 at 8:50 AM, Lee Hiers <lee.hiers@...> wrote:

>
>
> On Wed, Jul 25, 2012 at 9:34 AM, Dale Putnam <daleputnam@...>wrote:
>
> Much easier to make holes in, although I haven't figured out a real good
>> way of making square holes yet. Any ideas?
>>
>
> Not square holes (I don't use the display on my ATS3b), but for the round
> holes in Altoids tins, I've been relatively successful using a grinder bit
> on my Dremel after placing a pilot hole.
>
> Just FWIW.
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.comand click on
"QRP DXCC" for more info!
>
>
>
>
>
>

--
http://www.qsl.net/kc0pmh/ Under construction but please visit anyway.
**
QRP - *EFFICIENCY AND SKILL, NOT POWER.*

I'm British by birth but American by CHOICE!

Jesus came to pay a debt He didn't owe because we owe a debt we cannot
pay...

May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
1 Jn 2:17

http://www.4sqrp.com/index.php

4 State QRP Group NCS - 40m & 160m
FPQRP #342 (Flying Pigs QRP Club)
G-QRP-C #11504
NAQCC # 0759
QRP-ARCI #11505
SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9612. Re: [AT_Sprint] MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 15:00:10 UTC
From: John D'Ausilio
Topic: 9605 Message: 9612

Would anyone be interested in a custom plastic enclosure? I've been hacking on a 3D Printer since the beginning of the year and have it dialed in pretty well, and I've become skilled enough with OpenSCAD to design most anything I need pretty quickly. Though I don't have an MTR, I do have a couple of ATS3s, one unbuilt, which I could prototype a bit with. I can currently print with ABS or polylactide (working on polycarbonate) ..

de w1rt/john

On Wed, Jul 25, 2012 at 9:34 AM, Dale Putnam <daleputnam@...> wrote:

>
>
> The American-Morse case is heavier and will allow you to sit on it, or
> walk on it if you just must.
> Much easier to make holes in, although I haven't figured out a real good
> way of making square holes yet. Any ideas?
>
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: lee.hiers@...
> Date: Wed, 25 Jul 2012 09:07:46 -0400
> Subject: Re: [AT_Sprint] MTR Cases?
>
>
>
> On Wed, Jul 25, 2012 at 9:00 AM, TJ Campie <tom.campie@...> wrote:
>
>
> I saw some GREAT pictures in the photo section and I'm going to start
> looking for a case for mine. Any suggestions? I have an altoids tin I've
> been saving but I'd prefer something more polished.
>
> I would say Altoids tin...the MTR is designed to fit one. Steve has hiked
> thousands of miles with an ATS rig in an Altoids box and says they hold up
> fine. You could look for a fancy tin like I've got, I think it's
> relatively polished:
> http://1.bp.blogspot.com/-Ui29ymKIZEo/T6iYaByeR-I/AAAAAAAAAfE/pZRX6G6Eiko/s1600/IMAG0197
.jpg
>
> American Morse has a heavier duty box that is nice, especially for the ATS
> rigs with band modules, so it may not be appropriate for the MTR, not sure.
> Plus, he's been out of stock for a while:

> http://americanmorse.com/aa1.htm
>
> I think there are some clear-topped Altoids-esque cases out there as well
> - they may be a little beefier, but I haven't done an A-B comparison. Not
> sure where you get those...
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.comand click on
"QRP DXCC" for more info!
>
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>
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>

9613. Re: [AT_Sprint] MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 15:06:42 UTC
From: TJ Campie
Topic: 9605 Message: 9613

Sounds very interesting... would have to see what they look like!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Jul 25, 2012 at 10:00 AM, John D'Ausilio <jdausilio@...>wrote:

> **
>
>
> Would anyone be interested in a custom plastic enclosure? I've been
> hacking on a 3D Printer since the beginning of the year and have it dialed
> in pretty well, and I've become skilled enough with OpenSCAD to design most
> anything I need pretty quickly. Though I don't have an MTR, I do have a
> couple of ATS3s, one unbuilt, which I could prototype a bit with. I can
> currently print with ABS or polylactide (working on polycarbonate) ..
>
> de w1rt/john
>
>
> On Wed, Jul 25, 2012 at 9:34 AM, Dale Putnam <daleputnam@hotmail.com>wrote:
>
>>
>>
>> The American-Morse case is heavier and will allow you to sit on it, or
>> walk on it if you just must.
>> Much easier to make holes in, although I haven't figured out a real good
>> way of making square holes yet. Any ideas?
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>> --... ...-- Dale - WC7S in Wy
>>
>> ----------
>> To: AT_Sprint@yahoogroups.com
>> From: lee.hiers@...
>> Date: Wed, 25 Jul 2012 09:07:46 -0400
>> Subject: Re: [AT_Sprint] MTR Cases?
>>
>>
>>
>> On Wed, Jul 25, 2012 at 9:00 AM, TJ Campie <tom.campie@...> wrote:

>>
>>
>> I saw some GREAT pictures in the photo section and I'm going to start
>> looking for a case for mine. Any suggestions? I have an altoids tin I've
>> been saving but I'd prefer something more polished.
>>
>> I would say Altoids tin...the MTR is designed to fit one. Steve has
>> hiked thousands of miles with an ATS rig in an Altoids box and says they
>> hold up fine. You could look for a fancy tin like I've got, I think it's
>> relatively polished:
>> http://1.bp.blogspot.com/-Ui29ymKIZEo/T6iYaByeR-I/AAAAAAAAAfE/pZRX6G6Eiko/s1600/IMAG019
7.jpg
>>
>> American Morse has a heavier duty box that is nice, especially for the
>> ATS rigs with band modules, so it may not be appropriate for the MTR, not
>> sure. Plus, he's been out of stock for a while:
>> http://americanmorse.com/aa1.htm
>>
>> I think there are some clear-topped Altoids-esque cases out there as well
>> - they may be a little beefier, but I haven't done an A-B comparison. Not
>> sure where you get those...
>>
>> 73 de Lee
>> --
>> Lee Hiers, AA4GA
>> www.aa4ga.com
>>
>> Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.comand click on
"QRP DXCC" for more info!
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>

9614. Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 16:47:48 UTC
From: andrew.cross
Topic: 9605 Message: 9614

> Would anyone be interested in a custom plastic enclosure? I've been hacking
> on a 3D Printer since the beginning of the year and have it dialed in
> pretty well, and I've become skilled enough with OpenSCAD to design most
> anything I need pretty quickly. Though I don't have an MTR, I do have a
> couple of ATS3s, one unbuilt, which I could prototype a bit with. I can
> currently print with ABS or polylactide (working on polycarbonate) ..
>
> de w1rt/john

John, I wondered if anyone was looking at this option as I think it raises amazing possibilities for enclosures for these radios. I imagine that they would be fairly robust? Do keep us/me posted on your progress.

Andrew
F4VPI

9615. ESD mats portable set for safe soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 16:49:19 UTC
From: Petr
Topic: 9615 Message: 9615

Hi all,

I would like to share my experiences with ESD mats for safe, ESD protective soldering as it can help to others. I looked for long time on the eBay and other shops for possibility to purchase small portable ESD mats including the cables to connect for same el. potential or directly to common ground.
All mats I found were big and expensive or small but expensive or small, not high quality and expensive etc.

Requested parameters were: two layers, oil, grease and solvent resistant, high temp resistant, acid proof and knife cut proof material.

After long time I returned back to Czech market where I found the company where they has exactly what I looked for but unfortunately the mats are too big. Standard size is 80cm x 160cm for high price dedicated for professional industrial usage. So I tried to call them and they promised to cut it for me to preffered size 40x60cm and install the cables and bananas for ground connection. We also reached after some phone calls excellent price. Total price is finaly $25 including all h/w.

Parameters:
- thickness: 2mm
- RTG = 10^6 ☐ 10^8

ESD Rubber Mats have two layers; the top one is a blue static dissipative rubber layer laminated to a black conductive rubber bottom layer. Surface resistivity of the top layer is 106 ☐ 108 and bottom layer is 105 ☐ 106. This ESD Rubber material offers excellent resistance to oil, grease and most common solvent. These ESD Rubber Mats are very light compared to our single layer and three layer mats. Temperature resistance to 2000F.

The link is over here:
http://kitman.eprodavac.cz/prenosne-esd-pracoviste-sada-18/

Do not worry about the Czech language of the items description in the e-shop.

If You would like to get this ESD mats then let me know I am ready to help You with purchaisng and shipping to you worldwide.

Hope it will help to some of You as same as to me safe soldering in the kitchen property...

73 - Petr, OK1RP

9616. QST QST QST UPDATE - Team members needed for NAQP (CW) August 4/5

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 18:39:03 UTC
From: Hank Greeb
Topic: 9552 Message: 9616

UPDATE: We now have four suckers... errr. volunteers for the "AT-Sprint Team #1". The latest sucker... errr, volunteer is Arthur NS7E. We're looking for (at the very least) one more operator/station to fill this first team. So far, the roster is NS7E, WC7S, AA4GA, and me (N8XX). A team may include up to 5 members, and, remember, we may have as many teams as we have operators to fill them.

A bit of redundancy - We're looking for operators who have at least one rig designed by Steve, KD1JV, such as the AT-Sprint series (AT-Sprint, AT-Sprint-2, AT-Sprint 3, 3a, 3b, AT-Sprint 4), the Portable Field Radio (PFR), Mountain Top Radio (MTR), and several more. The NAQP uses 160 thru 10 metres (No 60 metres nor WARC Bands). Most activity recently has been on 80 thru 20 metres. This year the contests runs from 1800Z August 4 to 0600Z August 5, 2012 (First full weekend in August).

Rules for the NAQP are at http://www.ncjweb.com/naqprules.php

Note: You needn't be a die hard contest op, you needn't put in a full 10 hours (i.e. "part timers" are fine). There will be plenty of entrants to the contest, so you shouldn't run out of contacts.

Please advise if you're available.

72/73 de n8xx Hg

9617. Re: [AT_Sprint] MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 23:26:26 UTC
From: Yannick DEVOS (XV4Y)
Topic: 9605 Message: 9617

Like this :
http://www.laboiteverte.fr/une-perceuse-qui-fait-des-trous-carres/

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 25 juil. 2012 à 20:34, Dale Putnam a écrit :

>
>
> The American-Morse case is heavier and will allow you to sit on it, or walk on it if you just must.
> Much easier to make holes in, although I haven't figured out a real good way of making square holes yet. Any ideas?
>
>
> --... ...-- Dale - WC7S in Wy
>
> To: AT_Sprint@yahoogroups.com
> From: lee.hiers@...
> Date: Wed, 25 Jul 2012 09:07:46 -0400
> Subject: Re: [AT_Sprint] MTR Cases?
>
> On Wed, Jul 25, 2012 at 9:00 AM, TJ Campie <tom.campie@...> wrote:
>
> I saw some GREAT pictures in the photo section and I'm going to start looking for a case for mine. Any suggestions? I have an altoids tin I've been saving but I'd prefer something more polished.
> I would say Altoids tin...the MTR is designed to fit one. Steve has hiked thousands of miles with an ATS rig in an Altoids box and says they hold up fine. You could look for a fancy tin like I've got, I think it's relatively polished: http://1.bp.blogspot.com/-Ui29ymKIZEo/T6iYaByeR-I/AAAAAAAAAfE/pZRX6G6Eiko/s1600/IMAG0197.jpg
>
> American Morse has a heavier duty box that is nice, especially for the ATS rigs with band modules, so it may not be appropriate for the MTR, not sure. Plus, he's been out of stock for a while: http://americanmorse.com/aa1.htm
>
> I think there are some clear-topped Altoids-esque cases out there as well - they may be a little beefier, but I haven't done an A-B comparison. Not sure where you get those...
>
> 73 de Lee
> --

> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.com and click on "QRP DXCC" for more info!
>
>
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>

9618. Re: [AT_Sprint] MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 00:09:06 UTC
From: Johnny Matlock
Topic: 9605 Message: 9618

Hey Dale and the Group:
I make the square holes by starting with a drilled hole then working it out to the corners with a small nibbler.
I ran across the one I have at Rad Shack, but I am sure there is better ones to be had from hardware suppliers!
Some touch up with a small file usually gets them good enough?
I sure like the look of Fred's cut and folded holes! I have a can or two I am gonna try that on to see if I can make it work!
72
Johnny AC0BQ

On Wed, Jul 25, 2012 at 8:34 AM, Dale Putnam <daleputnam@...> wrote:

> **
>
>
> The American-Morse case is heavier and will allow you to sit on it, or
> walk on it if you just must.
> Much easier to make holes in, although I haven't figured out a real good
> way of making square holes yet. Any ideas?
>
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: lee.hiers@...
> Date: Wed, 25 Jul 2012 09:07:46 -0400
> Subject: Re: [AT_Sprint] MTR Cases?
>
>
>
> On Wed, Jul 25, 2012 at 9:00 AM, TJ Campie <tom.campie@...> wrote:
>
>
> I saw some GREAT pictures in the photo section and I'm going to start
> looking for a case for mine. Any suggestions? I have an altoids tin I've
> been saving but I'd prefer something more polished.
>
> I would say Altoids tin...the MTR is designed to fit one. Steve has hiked
> thousands of miles with an ATS rig in an Altoids box and says they hold up
> fine. You could look for a fancy tin like I've got, I think it's
> relatively polished:
> http://1.bp.blogspot.com/-Ui29ymKIZEo/T6iYaByeR-I/AAAAAAAAAfE/pZRX6G6Eiko/s1600/IMAG0197
.jpg

>
> American Morse has a heavier duty box that is nice, especially for the ATS
> rigs with band modules, so it may not be appropriate for the MTR, not sure.
> Plus, he's been out of stock for a while:
> http://americanmorse.com/aa1.htm
>
> I think there are some clear-topped Altoids-esque cases out there as well
> - they may be a little beefier, but I haven't done an A-B comparison. Not
> sure where you get those...
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.comand click on
"QRP DXCC" for more info!
>
>
>
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>
>

9619. RE: [AT_Sprint] MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 00:52:22 UTC
From: Dale Putnam
Topic: 9605 Message: 9619

Thank you Fellows, Great ideas, and lots too. On the one hand, my nibbler is too big.. I'll keep looking for a smaller one. The suggestion of a Jeweller's saw, was interesting, and while checking that out, it finally dawned on me that that, is what I used to know a variety of at least.. as a coping saw. Ok.. sure it's a bit different.. but the idea is still the same. The saw blades are different than I remember tho, in that the teeth are much more suited to metal. Very good. Thanks, I can see cleaner looking and better square holes have a future here.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: jomatlock@...
Date: Wed, 25 Jul 2012 19:09:06 -0500
Subject: Re: [AT_Sprint] MTR Cases?

Hey Dale and the Group:
I make the square holes by starting with a drilled hole then working it out to the corners with a small nibbler.
I ran across the one I have at Rad Shack, but I am sure there is better ones to be had from hardware suppliers!

Some touch up with a small file usually gets them good enough?
I sure like the look of Fred's cut and folded holes! I have a can or two I am gonna try that on to see if I can make it work!
72
Johnny AC0BQ

On Wed, Jul 25, 2012 at 8:34 AM, Dale Putnam <daleputnam@...> wrote:

The American-Morse case is heavier and will allow you to sit on it, or walk on it if you just must.
Much easier to make holes in, although I haven't figured out a real good way of making square holes yet. Any ideas?

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: lee.hiers@...

Date: Wed, 25 Jul 2012 09:07:46 -0400
Subject: Re: [AT_Sprint] MTR Cases?

On Wed, Jul 25, 2012 at 9:00 AM, TJ Campie <tom.campie@...> wrote:

I saw some GREAT pictures in the photo section and I'm going to start looking for a case for mine. Any suggestions? I have an altoids tin I've been saving but I'd prefer something

more polished.

I would say Altoids tin...the MTR is designed to fit one. Steve has hiked thousands of miles with an ATS rig in an Altoids box and says they hold up fine. You could look for a fancy tin like I've got, I think it's relatively polished: http://1.bp.blogspot.com/-Ui29ymKIZEo/T6iYaByeR-I/AAAAAAAAAfE/pZRX6G6Eiko/s1600/IMAG0197.jpg

American Morse has a heavier duty box that is nice, especially for the ATS rigs with band modules, so it may not be appropriate for the MTR, not sure. Plus, he's been out of stock for a while: http://americanmorse.com/aa1.htm

I think there are some clear-topped Altoids-esque cases out there as well - they may be a little beefier, but I haven't done an A-B comparison. Not sure where you get those...

73 de Lee--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.com and click on "QRP DXCC" for more info!

9620. Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 01:07:35 UTC
From: ve3wmb
Topic: 9605 Message: 9620

John :

For those of us that are "metal working challenged" this would be awesome.
I have an ATS-3A that I would love have a nice enclosure for. I am
also thinking about ordering an MTR in the next round so I would be in the same boat
for that.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "John D'Ausilio" <jdausilio@...> wrote:
>
> Would anyone be interested in a custom plastic enclosure? I've been hacking
> on a 3D Printer since the beginning of the year and have it dialed in
> pretty well, and I've become skilled enough with OpenSCAD to design most
> anything I need pretty quickly. Though I don't have an MTR, I do have a
> couple of ATS3s, one unbuilt, which I could prototype a bit with. I can
> currently print with ABS or polylactide (working on polycarbonate) ..
>
> de w1rt/john
>

9621. RE: [AT_Sprint] Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 01:10:12 UTC
From: Dale Putnam
Topic: 9605 Message: 9621

One possible case, that is intrigueing.. is a clear solid plastic acrylic case. Solid, transparent, and quite usable. It seems there should be something around that would be usable that way.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: mbabineau@...
Date: Thu, 26 Jul 2012 01:07:35 +0000
Subject: [AT_Sprint] Re: MTR Cases?

John :

For those of us that are "metal working challenged" this would be awesome.

I have an ATS-3A that I would love have a nice enclosure for. I am

also thinking about ordering an MTR in the next round so I would be in the same boat

for that.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "John D'Ausilio" <jdausilio@...> wrote:

>

> Would anyone be interested in a custom plastic enclosure? I've been hacking

> on a 3D Printer since the beginning of the year and have it dialed in

> pretty well, and I've become skilled enough with OpenSCAD to design most

> anything I need pretty quickly. Though I don't have an MTR, I do have a

> couple of ATS3s, one unbuilt, which I could prototype a bit with. I can

> currently print with ABS or polylactide (working on polycarbonate) ..

>

> de w1rt/john

>

9622. Re: [AT_Sprint] Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 01:13:32 UTC
From: Johnny Matlock
Topic: 9605 Message: 9622

Yeah I'm in for the idea of a see thru box for the little rigs, why hide them??
Johnny AC0BQ

On Wed, Jul 25, 2012 at 8:10 PM, Dale Putnam <daleputnam@...> wrote:

> **
>
>
> One possible case, that is intrigueing.. is a clear solid plastic acrylic
> case. Solid, transparent, and quite usable.
> It seems there should be something around that would be usable that way.
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: mbabineau@...
> Date: Thu, 26 Jul 2012 01:07:35 +0000
> Subject: [AT_Sprint] Re: MTR Cases?
>
>
>
> John :
>
> For those of us that are "metal working challenged" this would be awesome.
> I have an ATS-3A that I would love have a nice enclosure for. I am
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> Michael VE3WMB
>
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> > on a 3D Printer since the beginning of the year and have it dialed in
> > pretty well, and I've become skilled enough with OpenSCAD to design most
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> > couple of ATS3s, one unbuilt, which I could prototype a bit with. I can
> > currently print with ABS or polylactide (working on polycarbonate) ..
> >
> > de w1rt/john
> >

>
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>
>

9623. Re: [AT_Sprint] Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 01:28:56 UTC
From: Paul Smith
Topic: 9605 Message: 9623

I was so proud of my work on my ATS3B I put it in a 4sqrp clear top tin..... I didn't cut a square hole for the display either my eyes are so poor I had a hard time following what I was seeing lol cul de Paul

Sent from my iPad

On Jul 25, 2012, at 8:13 PM, Johnny Matlock <jomatlock@...> wrote:

> Yeah I'm in for the idea of a see thru box for the little rigs, why hide them??
> Johnny AC0BQ
>
>
> On Wed, Jul 25, 2012 at 8:10 PM, Dale Putnam <daleputnam@...> wrote:
>
> One possible case, that is intrigueing.. is a clear solid plastic acrylic case. Solid, transparent, and quite usable.
> It seems there should be something around that would be usable that way.
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> --... ...-- Dale - WC7S in Wy
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> To: AT_Sprint@yahoogroups.com
> From: mbabineau@...
> Date: Thu, 26 Jul 2012 01:07:35 +0000
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>
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> For those of us that are "metal working challenged" this would be awesome.
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> also thinking about ordering an MTR in the next round so I would be in the same boat
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> Michael VE3WMB
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> > couple of ATS3s, one unbuilt, which I could prototype a bit with. I can
> > currently print with ABS or polylactide (working on polycarbonate) ..
> >
> > de w1rt/john

> >
>
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9624. Re: [AT_Sprint] Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 02:55:59 UTC
From: John D'Ausilio
Topic: 9605 Message: 9624

Does anyone know if there are dimensioned drawings of the boards anywhere,
with locations of the switches, connectors, display, etc?
I may have to build up my 3B and measure stuff ...

de w1rt/john

On Wed, Jul 25, 2012 at 9:28 PM, Paul Smith <psmith61@...> wrote:

>
>
> I was so proud of my work on my ATS3B I put it in a 4sqrp clear top
> tin..... I didn't cut a square hole for the display either my eyes are so
> poor I had a hard time following what I was seeing lol cul de Paul
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> Sent from my iPad
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> On Jul 25, 2012, at 8:13 PM, Johnny Matlock <jomatlock@...> wrote:
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> Yeah I'm in for the idea of a see thru box for the little rigs, why hide
> them??
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>> To: AT_Sprint@yahoogroups.com
>> From: mbabineau@...
>> Date: Thu, 26 Jul 2012 01:07:35 +0000
>> Subject: [AT_Sprint] Re: MTR Cases?
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>> John :
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9625. Re: [AT_Sprint] MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 03:51:39 UTC
From: wmorrill@montana.edu
Topic: 9605 Message: 9625

Guys-
If you are metal challenged, and want a metal case for the MTNs, mine is
shown in the files section. Its the one with menu mispelled...
I can make more, contact me off list.
Wendell
N7WM
wmorrill at montana.edu

> Hey Dale and the Group:
> I make the square holes by starting with a drilled hole then working it
> out
> to the corners with a small nibbler.
> I ran across the one I have at Rad Shack, but I am sure there is better
> ones to be had from hardware suppliers!
> Some touch up with a small file usually gets them good enough?
> I sure like the look of Fred's cut and folded holes! I have a can or two I
> am gonna try that on to see if I can make it work!
> 72
> Johnny AC0BQ
>
> On Wed, Jul 25, 2012 at 8:34 AM, Dale Putnam <daleputnam@...>
> wrote:
>
>> **
>>
>>
>> The American-Morse case is heavier and will allow you to sit on it, or
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>> Much easier to make holes in, although I haven't figured out a real good
>> way of making square holes yet. Any ideas?
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>> --... ...-- Dale - WC7S in Wy
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>> To: AT_Sprint@yahoogroups.com
>> From: lee.hiers@...
>> Date: Wed, 25 Jul 2012 09:07:46 -0400
>> Subject: Re: [AT_Sprint] MTR Cases?
>>
>>
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>> On Wed, Jul 25, 2012 at 9:00 AM, TJ Campie <tom.campie@...>
>> wrote:
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>> I saw some GREAT pictures in the photo section and I'm going to start
>> looking for a case for mine. Any suggestions? I have an altoids tin
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>> been saving but I'd prefer something more polished.
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>> hiked
>> thousands of miles with an ATS rig in an Altoids box and says they hold
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>> fine. You could look for a fancy tin like I've got, I think it's
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>> http://1.bp.blogspot.com/-Ui29ymKIZEo/T6iYaByeR-I/AAAAAAAAAfE/pZRX6G6Eiko/s1600/IMAG019
7.jpg
>>
>> American Morse has a heavier duty box that is nice, especially for the
>> ATS
>> rigs with band modules, so it may not be appropriate for the MTR, not
>> sure.
>> Plus, he's been out of stock for a while:
>> http://americanmorse.com/aa1.htm
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>> I think there are some clear-topped Altoids-esque cases out there as
>> well
>> - they may be a little beefier, but I haven't done an A-B comparison.
>> Not
>> sure where you get those...
>>
>> 73 de Lee
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>> Lee Hiers, AA4GA
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>> Submit your totals to the unofficial QRP DXCC standings - go to
>> aa4ga.comand click on "QRP DXCC" for more info!
>>
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>

9626. Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 04:22:35 UTC
From: camqrp@verizon.net
Topic: 9605 Message: 9626

Tom -

In the Photos section, the album titled "N6GA's Scope Photos". The scope photos are long gone but there are some pix of my ATS-3A in one of American Morse's boxes. Agreed, you can back your Hummer over it and it will keep on ticking. Stepper drills make very nice holes in the thick aluminu- Cam N6GA

--- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
>
> So thanks to the group, I have an MTR on the way - I saw some GREAT
> pictures in the photo section and I'm going to start looking for a case for
> mine. Any suggestions? I have an altoids tin I've been saving but I'd
> prefer something more polished.
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>

9627. Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 04:29:46 UTC
From: camqrp@verizon.net
Topic: 9605 Message: 9627

Check out the photos of N7SR's MTR in the photo page. He used the box his Mac Mouse came in. You might have one of those sitting around...

- Cam N6GA

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> One possible case, that is intrigueing.. is a clear solid plastic acrylic case. Solid, transparent, and quite usable. It seems there should be something around that would be usable that way.
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: mbabineau@...
> Date: Thu, 26 Jul 2012 01:07:35 +0000
> Subject: [AT_Sprint] Re: MTR Cases?

9628. Re: [AT_Sprint] Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 16:17:51 UTC
From: Scott Zastoupil
Topic: 9605 Message: 9628

For semi transparent cases, take a look at Bob, AD7BP's MTR build. He used a
Hammond 1591BTBU transparent blue case.
http://eggsandhamradio.blogspot.com/

Scott, KB0KFX

_____
From: Johnny Matlock <jomatlock@...>
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, July 25, 2012 8:13 PM
Subject: Re: [AT_Sprint] Re: MTR Cases?

Yeah I'm in for the idea of a see thru box for the little rigs, why hide them??
Johnny AC0BQ

On Wed, Jul 25, 2012 at 8:10 PM, Dale Putnam <daleputnam@...> wrote:

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>
>--...   ...--
Dale - WC7S in Wy
>
>
>
>_____
>To: AT_Sprint@yahoogroups.com
>From: mbabineau@magma.ca
>Date: Thu, 26 Jul 2012 01:07:35 +0000
>Subject: [AT_Sprint] Re: MTR Cases?
>
>
>
>John :
>
>For those of us that are "metal working challenged" this would be awesome.
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>Michael VE3WMB
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>>
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>> currently print with ABS or polylactide (working on polycarbonate) ..
>>
>> de w1rt/john
>>
>
>
>

9629. Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 01:38:39 UTC
From: greeneggs_hamradio
Topic: 9629 Message: 9629

TAP Plastics in northern California has a line of hinged clear and tinted plastic boxes.

here is the link:
http://www.tapplastics.com/product/plastics/plastic_containers/molded_boxes/224

you can see the boxes and dimensions.

Ron Wellman KG6SCF

9630. Re: [AT_Sprint] Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-26 01:31:24 UTC
From: ron wellman
Topic: 9605 Message: 9630

about plastic boxes:TAP Plastics in northern California has a range of clear and tinted plastic hinged containers.
look here:
http://www.tapplastics.com/product/plastics/plastic_containers/molded_boxes/224
Ron, KG6SCF in Cali

Yeah I'm in for the idea of a see thru box for the little rigs, why hide them??
Johnny AC0BQ

One possible case, that is intrigueing.. is a clear solid plastic acrylic case. Solid, transparent, and quite usable.
>It seems there should be something around that would be usable that way.
>
>--
Dale - WC7S in Wy
>

9631. Re: [AT_Sprint] MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-25 21:13:23 UTC
From: ron wellman
Topic: 9605 Message: 9631

how about drilling a starter hold and using a square file? or drilling a starter hole, then your dremel to cut diagonal slots and fold back the extra material?

_____
From: Dale Putnam <daleputnam@...>
To: AT Sprint <at_sprint@yahoogroups.com>
Sent: Wednesday, July 25, 2012 6:34 AM
Subject: RE: [AT_Sprint] MTR Cases?

The American-Morse case is heavier and will allow you to sit on it, or walk on it if you just must.
Much easier to make holes in, although I haven't figured out a real good way of making square holes yet. Any ideas?

--... ...--
Dale - WC7S in Wy

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To: AT_Sprint@yahoogroups.com
From: lee.hiers@...
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Subject: Re: [AT_Sprint] MTR Cases?

On Wed, Jul 25, 2012 at 9:00 AM, TJ Campie <tom.campie@...> wrote:

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American Morse has a heavier duty box that is nice, especially for the ATS rigs with band modules, so it may not be appropriate for the MTR, not sure. Plus, he's been out of stock for a while: http://americanmorse.com/aa1.htm

I think there are some clear-topped Altoids-esque cases out there as well - they may be a little beefier, but I haven't done an A-B comparison. Not sure where you get those...

73 de Lee
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Lee Hiers, AA4GA

www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.com and click on "QRP DXCC" for more info!

9632. Re: [AT_Sprint] Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-27 03:44:37 UTC
From: wmorrill@montana.edu
Topic: 9605 Message: 9632

I have enclosed many qrp rigs in clear plastic cases. Pieces were cut with a table saw and glued with super glue. Hinges were obtained from model airplane hobby shops. Took them to ham meets and clubs to show them off. However.... if you plan to operate rockmites, small wonder, and similar rigs be aware that BCI eats them up in unshielded boxes. The MTR and ATS rigs seem to be fairly immune, just be aware that it could be a problem.

Wendell
N7WM

>
>> Would anyone be interested in a custom plastic enclosure? I've been
>> hacking
>> on a 3D Printer since the beginning of the year and have it dialed in
>> pretty well, and I've become skilled enough with OpenSCAD to design most
>> anything I need pretty quickly. Though I don't have an MTR, I do have a
>> couple of ATS3s, one unbuilt, which I could prototype a bit with. I can
>> currently print with ABS or polylactide (working on polycarbonate) ..
>>
>> de w1rt/john
>
>
> John, I wondered if anyone was looking at this option as I think it raises
> amazing possibilities for enclosures for these radios. I imagine that they
> would be fairly robust? Do keep us/me posted on your progress.
>
> Andrew
> F4VPI
>
>

9633. Re: MTR Cases?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-27 12:32:35 UTC
From: PHILIP GRAITCER
Topic: 9605 Message: 9633

I used a clear plastic box that a Mac
mighty mouse comes in. There's room in box for a flat LipO battery, fuse and switch.

See photos in gallery.

Phil, W3HZZ

Sent from my iPhone

9634. Re: ESD mats portable set for safe soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-27 16:28:56 UTC
From: Petr
Topic: 9615 Message: 9634

Hi all,

as I got few emails with questions if it is possible to buy the ESD mats about which I talked in last post and ship them overseas so I am sharing the informaion here again to all...

Yes, I am ready to help with that. I can order them and pay on the e-shop localy. I will re-pack and make the all admin for shipping it to anybody overseas.

The price is just $25 for complete high quality ESD mat including the cables and connection/gnd points as You can see in the link. For payment to me Paypal is ok.

Just drop me an email and I will send You quickly the shipping cost and total. It should not be excessive I guess.

My best regards,

73 - Petr, OK1RP

--- In AT_Sprint@yahoogroups.com, "Petr" <indians@...> wrote:
>
> Hi all,
>
> I would like to share my experiences with ESD mats for safe, ESD protective soldering as it can help to others. I looked for long time on the eBay and other shops for possibility to purchase small portable ESD mats including the cables to connect for same el. potential or directly to common ground.
> All mats I found were big and expensive or small but expensive or small, not high quality and expensive etc.
>
> Requested parameters were: two layers, oil, grease and solvent resistant, high temp resistant, acid proof and knife cut proof material.
>
> After long time I returned back to Czech market where I found the company where they has exactly what I looked for but unfortunately the mats are too big. Standard size is 80cm x 160cm for high price dedicated for professional industrial usage. So I tried to call them and they promised to cut it for me to preffered size 40x60cm and install the cables and bananas for ground connection. We also reached after some phone calls excellent price. Total price is finaly $25 including all h/w.
>
> Parameters:
> - thickness: 2mm
> - RTG = 10^6 ☐ 10^8
>
> ESD Rubber Mats have two layers; the top one is a blue static dissipative rubber layer laminated to a black conductive rubber bottom layer. Surface resistivity of the top layer is 106 ☐ 108 and bottom layer is 105 ☐ 106. This ESD Rubber material offers excellent resistance to oil, grease and most common solvent. These ESD Rubber Mats are very light compared to our single layer and three layer mats. Temperature resistance to 2000F.
>

> The link is over here:
> http://kitman.eprodavac.cz/prenosne-esd-pracoviste-sada-18/
>
> Do not worry about the Czech language of the items description in the e-shop.
>
> If You would like to get this ESD mats then let me know I am ready to help You with purchaisng and shipping to you worldwide.
>
> Hope it will help to some of You as same as to me safe soldering in the kitchen property...
>
> 73 - Petr, OK1RP
>

9635. Re: [AT_Sprint] ESD mats portable set for safe soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-27 16:35:14 UTC
From: Johnny Matlock
Topic: 9615 Message: 9635

I am interested Petr
I will contact you off list tonight with info
Thanks
Johnny ac0bq

On Friday, July 27, 2012, Petr wrote:

> **
>
>
> Hi all,
>
> as I got few emails with questions if it is possible to buy the ESD mats
> about which I talked in last post and ship them overseas so I am sharing
> the informaion here again to all...
>
> Yes, I am ready to help with that. I can order them and pay on the e-shop
> localy. I will re-pack and make the all admin for shipping it to anybody
> overseas.
>
> The price is just $25 for complete high quality ESD mat including the
> cables and connection/gnd points as You can see in the link. For payment to
> me Paypal is ok.
>
> Just drop me an email and I will send You quickly the shipping cost and
> total. It should not be excessive I guess.
>
> My best regards,
>
> 73 - Petr, OK1RP
>
> --- In AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint%40yahoogroups.com');>, "Petr" <indians@...> wrote:
> >
> > Hi all,
> >
> > I would like to share my experiences with ESD mats for safe, ESD
> protective soldering as it can help to others. I looked for long time on
> the eBay and other shops for possibility to purchase small portable ESD
> mats including the cables to connect for same el. potential or directly to
> common ground.
> > All mats I found were big and expensive or small but expensive or small,
> not high quality and expensive etc.
> >
> > Requested parameters were: two layers, oil, grease and solvent

> resistant, high temp resistant, acid proof and knife cut proof material.
> >
> > After long time I returned back to Czech market where I found the
> company where they has exactly what I looked for but unfortunately the mats
> are too big. Standard size is 80cm x 160cm for high price dedicated for
> professional industrial usage. So I tried to call them and they promised to
> cut it for me to preffered size 40x60cm and install the cables and bananas
> for ground connection. We also reached after some phone calls excellent
> price. Total price is finaly $25 including all h/w.
> >
> > Parameters:
> > - thickness: 2mm
> > - RTG = 10^6 – 10^8
> >
> > ESD Rubber Mats have two layers; the top one is a blue static
> dissipative rubber layer laminated to a black conductive rubber bottom
> layer. Surface resistivity of the top layer is 106 – 108 and bottom layer
> is 105 – 106. This ESD Rubber material offers excellent resistance to oil,
> grease and most common solvent. These ESD Rubber Mats are very light
> compared to our single layer and three layer mats. Temperature resistance
> to 2000F.
> >
> > The link is over here:
> > http://kitman.eprodavac.cz/prenosne-esd-pracoviste-sada-18/
> >
> > Do not worry about the Czech language of the items description in the
> e-shop.
> >
> > If You would like to get this ESD mats then let me know I am ready to
> help You with purchaisng and shipping to you worldwide.
> >
> > Hope it will help to some of You as same as to me safe soldering in the
> kitchen property...
> >
> > 73 - Petr, OK1RP
> >
>
>
>

9636. Re: [AT_Sprint] ESD mats portable set for safe soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-27 16:41:37 UTC
From: greeneggs_hamradio
Topic: 9615 Message: 9636

Petr,

can you post your email address"

thx,

ron KG6SCF

9637. Whither KD1JV?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-27 20:49:09 UTC
From: Hank Greeb
Topic: 9637 Message: 9637

Anyone hear of the whereabouts of KD1JV?

I know he was planning an extended trip after the Daytown Minivention. I thunk he said he was going to "Real Mountains" along the Continental Divide Trail, but that may be faulty memory. There was some concern expressed earlier about possibly being near some of the forest fires in Coloradio, but, again, that seemed to be speculation.

I'm just curious and mildly concerned of health an welfare of Steve.

72/73 de n8xx Hg

9638. Re: [AT_Sprint] Whither KD1JV?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-27 22:43:11 UTC
From: wmorrill@montana.edu
Topic: 9637 Message: 9638

Haven't heard anything from Steve. Fires have pretty well died out here in western Montana were the Continental Divide Trail is located. Quite a bit of lightning today, fires may start up again.
I expect that Steve will surface before long.

Wendell
N7WM

> Anyone hear of the whereabouts of KD1JV?
>
> I know he was planning an extended trip after the Daytown Minivention.
> I thunk he said he was going to "Real Mountains" along the Continental
> Divide Trail, but that may be faulty memory. There was some concern
> expressed earlier about possibly being near some of the forest fires in
> Coloradio, but, again, that seemed to be speculation.
>
> I'm just curious and mildly concerned of health an welfare of Steve.
>
> 72/73 de n8xx Hg
>
>
>

9639. Re: [AT_Sprint] Whither KD1JV?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-27 22:59:50 UTC
From: Hank Greeb
Topic: 9637 Message: 9639

Tnx Wendell:

Sounds like he is "really getting away from it all." Last time he did an extended trip on the Appalachian Trail he did an occasional blog. I remember reading "slow goin."

I have a brother who lives in Fort Collins, CO. He's been keeping me informed of the fires in Colorado. Wild time this year, for sure.

72/73de n8xx Hg

On 7/27/2012 6:43 PM, wmorrill@... wrote:
> Haven't heard anything from Steve. Fires have pretty well died out here in western Montana were the Continental Divide Trail is located. Quite a bit of lightning today, fires may start up again. I expect that Steve will surface before long.
>
> Wendell
> N7WM
>
>
>> Anyone hear of the whereabouts of KD1JV?
>>
>> I know he was planning an extended trip after the Daytown Minivention. I thunk he said he was going to "Real Mountains" along the Continental Divide Trail, but that may be faulty memory. There was some concern expressed earlier about possibly being near some of the forest fires in Coloradio, but, again, that seemed to be speculation.
>>
>> I'm just curious and mildly concerned of health an welfare of Steve.
>>
>> 72/73 de n8xx Hg

9640. Re: ESD mats portable set for safe soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-29 10:20:00 UTC
From: Petr
Topic: 9615 Message: 9640

Hi Ron and all,

the email is

indians@...

Please drop me an email directly.

73 - Petr, OK1RP

--- In AT_Sprint@yahoogroups.com, "greeneggs_hamradio" <rondosxx@...> wrote:
>
> Petr,
>
> can you post your email address"
>
> thx,
>
> ron KG6SCF
>

9641. Re: [AT_Sprint] Whither KD1JV?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-29 15:31:06 UTC
From: Steven Weber
Topic: 9637 Message: 9641

> Anyone hear of the whereabouts of KD1JV?
>

I am alive and well, thank you. My trip ended a little earlier than expected and I've been home for a couple of weeks. You can read about my adventure and view some photos at http://www.trailjournals.com/entry.cfm?trailname=13144

I'm not ready to go back to work yet, so will be heading over to Vermont to start hiking the Long Trail in a few days. See ya in September.

Steve KD1JV

9642. Re: [AT_Sprint] Whither KD1JV?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-30 04:36:44 UTC
From: Yannick DEVOS (XV4Y)
Topic: 9637 Message: 9642

Hi Steve,

Nice to hear some news from you.
I read your journal with great interest about both the trails and group dynamic.
My current main activity here is around tourism, I act as a guide sometime.
Groups are tough sometime, girls group tougher.
When you are in front of a family group for example, you have some kind of hierarchy that makes things easier for the "external element" (the guide, a "guest member"...) but with groups of friends, not.
My own experience tell me girls groups are tougher because they have a great quality (from the group point of view) : they don't let the "internal problems" break the group. Instead of that, they put all the charges on someone else, namely the guide or the guest member.
When some element of a group of boys disagree, they will speak loud, one will go its own way for a few hours/days and they will eventually meet later.
The same often goes for some couple or families where all are adults (three grown up sisters with their husbands/kids for example).
I've never seen that with girls only.

Now about the MTR.
I am having some spare time and enjoying the assembly of the kit.
Many people here already know it but this is my first ATS/MTR : Great electronic design, great component quality, great physical design... could not be better I think, even throwing more money in this project.
Even if everything is provided and the manual gives all the recommendations, I think this is definitely not a SMD beginner kit but right the one I wanted now.
I should end the assembly in a few days (my kids will soon come back from their grandparents farm so not so much quiet spare time).
Then will start the longer and harder work : the finishings and casing...
No rush anyway since 20 and 30m are not good and I am not expecting good condx for daytime QRP before october.
http://xv4y.radioclub.asia/category/ham-radio/materiel/mtr-materiel/

Thanks for the great kits you provide.
73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 29 juil. 2012 à 22:31, Steven Weber a écrit :

>
>
>> Anyone hear of the whereabouts of KD1JV?
>>

> I am alive and well, thank you. My trip ended a little earlier than expected
> and I've been home for a couple of weeks. You can read about my adventure
> and view some photos at
> http://www.trailjournals.com/entry.cfm?trailname=13144
>
> I'm not ready to go back to work yet, so will be heading over to Vermont to
> start hiking the Long Trail in a few days. See ya in September.
>
> Steve KD1JV
>
>
>
> ---
>
> Yahoo! Groups Links
>
>
>

9643. Re: Whither KD1JV?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-30 13:37:33 UTC
From: Dennis
Topic: 9637 Message: 9643

Wow Steve, I looked at the journal. Quite an adventure! I suspect the heart was really pounding when you slipped on that ice.
Good luck on the Vermont Trail. Even though I'm in Florida, if you need an assist I can help with, do let me know.
Dennis, K1YPP
--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
>
>
> > Anyone hear of the whereabouts of KD1JV?
> >
> I am alive and well, thank you. My trip ended a little earlier than expected
...
> I'm not ready to go back to work yet, so will be heading over to Vermont to
> start hiking the Long Trail in a few days. See ya in September.
>
> Steve KD1JV
>

9644. Built 40M/20M MTR for Sale....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-30 17:08:37 UTC
From: Bob
Topic: 9644 Message: 9644

I have a built, NOT in a box, 40M/20M MTR for sale. Works fine, has updated yellow dot micro. Measured 3.7 W out 40M and 3.2 W on 20M
@9.1V. Has all connectors attached, BNC for antenna. SN 132.
Nice clean construction job. $100 + $5 for shipping. I think Priority Small box is about $5. Not making anything off this. Rig is excess to my needs since I already have an ATS-4b. Earliest date/time email will get it. PayPal ok.

Bob...WA1EDJ...GA.

9645. QST QST QST UPDATE - Team members still being solicited for NAQP (CW) August 4/5

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-30 17:38:11 UTC
From: Hank Greeb
Topic: 9645 Message: 9645

UPDATE: We now have one full team of five suckers... errr. volunteers for the "AT-Sprint Team #1". The latest sucker... errr, volunteer is Doc, K0EVZ. While this rounds out the first team, the NAQP Rules allow for an unlimited number of teams. And, occasionally, personal or business commitment interferes with "the best laid plans of mice and men." So, I'm still looking for additional suckers... errr, volunteers who would like to be a part of this (motley{?}) crew. If we have six volunteers, we'll break into two teams of 3, if we have 7, we'll have one team of 4, another of 3, et. cetera. If we have 20 volunteers, we will enter 4 teams of five. So, please don't be bashful. You needn't be a die hard contest op, you needn't put in a full 10 hours (i.e. "part timers" are fine). There will be plenty of entrants to the contest, so you shouldn't run out of contacts.

The roster for Team # 1 is N0EVZ, NS7E, WC7S, AA4GA, and me (N8XX).

As a reminder - We're looking for operators who have at least one rig designed by Steve, KD1JV, such as the AT-Sprint series (AT-Sprint, AT-Sprint-2, AT-Sprint 3, 3a, 3b, AT-Sprint 4), the Portable Field Radio (PFR), Mountain Top Radio (MTR), and several more. The NAQP uses 160 thru 10 metres (No 60 metres nor WARC Bands). Most activity recently has been on 80 thru 20 metres. We'll be competing mainly with 100 watt ops - there will be a few "practicing" with their "full gallon" stations, but they won't be in the competition. This year the contests runs from 1800Z August 4 to 0600Z August 5, 2012 (First full weekend in August).

Rules for the NAQP are at http://www.ncjweb.com/naqprules.php

Please advise if you're available. I'd like for us to put on "a good old college try" in this event, and show the "big boys" what QRP can do. Personally, I never cease to be amazed what 5 watts to a modest antenna can do in such competition.

72/73 de n8xx Hg

9646. RE: [AT_Sprint] Built 40M/20M MTR for Sale....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-30 17:50:35 UTC
From: Robin Kidd
Topic: 9644 Message: 9646

I will take it if still available.

72/73,

Robin

W4IEN

<mailto:w4ien@...> w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Bob
Sent: Monday, July 30, 2012 13:09
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Built 40M/20M MTR for Sale....

I have a built, NOT in a box, 40M/20M MTR for sale. Works fine, has updated yellow dot micro. Measured 3.7 W out 40M and 3.2 W on 20M @9.1V. Has all connectors attached, BNC for antenna. SN 132.
Nice clean construction job. $100 + $5 for shipping. I think Priority Small box is about $5. Not making anything off this. Rig is excess to my needs since I already have an ATS-4b.
Earliest date/time email will get it. PayPal ok.

Bob...WA1EDJ...GA.

9647. Re: [AT_Sprint] Built 40M/20M MTR for Sale....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-30 17:59:23 UTC
From: Bob Confrey
Topic: 9644 Message: 9647

Robin,
Chuck WA6LTV/4 was 1 min. ahead of you. If he decides he does not
want it, I'll let you know.....TNX....Bob...WA1EDJ....

On Mon, Jul 30, 2012 at 1:50 PM, Robin Kidd <w4ien@...> wrote:

>
>
> I will take it if still available.****
>
> ** **
>
> 72/73,****
>
> Robin****
>
> W4IEN****
>
> w4ien@...****
>
> 678-488-9655****
>
> ** **
>
> *From:* AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] *On
> Behalf Of *Bob
> *Sent:* Monday, July 30, 2012 13:09
> *To:* AT_Sprint@yahoogroups.com
> *Subject:* [AT_Sprint] Built 40M/20M MTR for Sale....****
>
> ** **
>
> ****
>
> I have a built, NOT in a box, 40M/20M MTR for sale. Works fine, has
> updated yellow dot micro. Measured 3.7 W out 40M and 3.2 W on 20M
> @9.1V. Has all connectors attached, BNC for antenna. SN 132.
> Nice clean construction job. $100 + $5 for shipping. I think Priority
> Small box is about $5. Not making anything off this. Rig is excess to my
> needs since I already have an ATS-4b.
> Earliest date/time email will get it. PayPal ok.
>
> Bob...WA1EDJ...GA. ****
>
> ****

>
>
>
>

9648. RE: [AT_Sprint] Built 40M/20M MTR for Sale....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-30 18:11:42 UTC
From: Robin Kidd
Topic: 9644 Message: 9648

Ok, thank you.

72/73,

Robin

W4IEN

<mailto:w4ien@...> w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of Bob Confrey
Sent: Monday, July 30, 2012 13:59
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Built 40M/20M MTR for Sale....

Robin,
Chuck WA6LTV/4 was 1 min. ahead of you. If he decides he does not
want it, I'll let you know.....TNX....Bob...WA1EDJ....

On Mon, Jul 30, 2012 at 1:50 PM, Robin Kidd <w4ien@...> wrote:

I will take it if still available.

72/73,

Robin

W4IEN

w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of Bob
Sent: Monday, July 30, 2012 13:09
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Built 40M/20M MTR for Sale....

I have a built, NOT in a box, 40M/20M MTR for sale. Works fine, has updated
yellow dot micro. Measured 3.7 W out 40M and 3.2 W on 20M
@9.1V. Has all connectors attached, BNC for antenna. SN 132.
Nice clean construction job. $100 + $5 for shipping. I think Priority Small
box is about $5. Not making anything off this. Rig is excess to my needs
since I already have an ATS-4b.
Earliest date/time email will get it. PayPal ok.

Bob...WA1EDJ...GA.

9649. Re: [AT_Sprint] Built 40M/20M MTR for Sale....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-30 21:29:06 UTC
From: K. H. Steenaerts
Topic: 9644 Message: 9649

Hello Bob!

Is the MTR available?

vy 73 Karl, DL2XL

Am 30.07.2012 19:08, schrieb Bob:
>
> I have a built, NOT in a box, 40M/20M MTR for sale. Works fine, has
> updated yellow dot micro. Measured 3.7 W out 40M and 3.2 W on 20M
> @9.1V. Has all connectors attached, BNC for antenna. SN 132.
> Nice clean construction job. $100 + $5 for shipping. I think Priority
> Small box is about $5. Not making anything off this. Rig is excess to
> my needs since I already have an ATS-4b.
> Earliest date/time email will get it. PayPal ok.
>
> Bob...WA1EDJ...GA.
>
>

9650. ESD mats portable set for safe soldering - shipping cost

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-31 09:45:36 UTC
From: Petr
Topic: 9650 Message: 9650

Hello,

upon many requests I decided to share over here the shipping cost and totals for 1pc/2pcs of the ESD mats sets:

1pc of ESD mat portable set

Economy mail service (6-8weeks) worldwide: $13 shipping / $38 total to Paypal (incl. shipping, packaging, insurance, handling, Paypal fee)
Priority mail service (3-4weeks) worldwide: $17 shipping / $42 total to Paypal (incl. shipping, packaging, insurance, handling, Paypal fee)

2pc of ESD mats portable sets

Economy mail service (6-8weeks) worldwide: $19 shipping / $69 total to Paypal (incl. shipping, packaging, insurance, handling, Paypal fee)
Priority mail service (3-4weeks) worldwide: $23 shipping / $73 total to Paypal (incl. shipping, packaging, insurance, handling, Paypal fee)

*the mats including the all h/w will be rolled up, wraped and packed carefully into the bubble wrap envelope.

Payment

Use the Paypal payment to: nostalgia.radio@...
Please mention in the comment the mail service choice.

Shipping

After receiving the payment I will order the batch of mats sets. Delivery to my QTH according to last phone calls to supplier is 2-3days.
Immediately after I will check them, re-pack upon requests, fill the customs paperwork and will shipp to each of You.
Each payment will be confirmed by separate email to You as same as the shipment of the package including the tracking number and link to tracking web page.

My best regards,

73 - Petr, OK1RP

9651. Re: [AT_Sprint] Built 40M/20M MTR for Sale....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-31 13:54:19 UTC
From: Bob Confrey
Topic: 9644 Message: 9651

Karl,
Right now, Robin W4IEN, was next in line to get the MTR. If that
falls through, I'll let you know. TNX!...Bob..>WA1EDJ....

On Mon, Jul 30, 2012 at 5:29 PM, K. H. Steenaerts <kabelkalla@...> wrote:
> Hello Bob!
>
> Is the MTR available?
>
> vy 73 Karl, DL2XL
>
> Am 30.07.2012 19:08, schrieb Bob:
>>
>> I have a built, NOT in a box, 40M/20M MTR for sale. Works fine, has
>> updated yellow dot micro. Measured 3.7 W out 40M and 3.2 W on 20M
>> @9.1V. Has all connectors attached, BNC for antenna. SN 132.
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>> Small box is about $5. Not making anything off this. Rig is excess to
>> my needs since I already have an ATS-4b.
>> Earliest date/time email will get it. PayPal ok.
>>
>> Bob...WA1EDJ...GA.
>>
>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

9652. Re: Whither KD1JV?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-31 14:36:00 UTC
From: PaulG
Topic: 9637 Message: 9652

Steve really enjoyed your trail journal! Have a good hike on the Long Trail.

BTW I enjoyed using the ATS-4 on the Flight of the Bumblebees last weekend from Lovettsville VA.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
>
>
> > Anyone hear of the whereabouts of KD1JV?
> >
> I am alive and well, thank you. My trip ended a little earlier than expected
> and I've been home for a couple of weeks. You can read about my adventure
> and view some photos at
> http://www.trailjournals.com/entry.cfm?trailname=13144
>
> I'm not ready to go back to work yet, so will be heading over to Vermont to
> start hiking the Long Trail in a few days. See ya in September.
>
> Steve KD1JV
>

9653. Re: ESD mats portable set for safe soldering - test

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-31 16:24:24 UTC
From: Petr
Topic: 9650 Message: 9653

Hi all,

today I got my ESD mat from the supplier so I decided to make few tests and share it with You to provide You as much as possible technical information and specs...before decission for ordering it.

The size of mat is 40x60cm as described.
The tickness is 2mm as described (2-layers).

I tested several oils, greases and different solvents and mat survived without any damages.
I tested the flare-up point and it seems to be higher than 1000 C which is corresponding to almost 2000 F. (I was limited by temp sensors and thermometer over here)
I tested the burning thru temperature and it survived 450 C for 2mins which is corresponding to 850 F. (I was limited by my soldering station, hi)
I tested the max of the temp without any noticeable damage of the top layer. It survived 200 C for 2mins which is corresponding to 400 F.
Finaly I tried to cut it using standard knife and make the hole thru using drill and it proved very high resistance.

All these tests results are so great that I am really happy with this new ESD mat and I am sure that it will make great job (for that price) and help a lot to all of You who ordered it.

73 - Petr, OK1RP

--- In AT_Sprint@yahoogroups.com, "Petr" <indians@...> wrote:
>
> Hello,
>
> upon many requests I decided to share over here the shipping cost and totals for 1pc/2pcs of the ESD mats sets:
>
> 1pc of ESD mat portable set
> ---
> Economy mail service (6-8weeks) worldwide: $13 shipping / $38 total to Paypal (incl. shipping, packaging, insurance, handling, Paypal fee)
> Priority mail service (3-4weeks) worldwide: $17 shipping / $42 total to Paypal (incl. shipping, packaging, insurance, handling, Paypal fee)
>
> 2pc of ESD mats portable sets
> ---
> Economy mail service (6-8weeks) worldwide: $19 shipping / $69 total to Paypal (incl. shipping, packaging, insurance, handling, Paypal fee)
> Priority mail service (3-4weeks) worldwide: $23 shipping / $73 total to Paypal (incl. shipping, packaging, insurance, handling, Paypal fee)
>

> *the mats including the all h/w will be rolled up, wraped and packed carefully into the bubble wrap envelope.
>
> Payment
> -------
> Use the Paypal payment to: nostalgia.radio@...
> Please mention in the comment the mail service choice.
>
> Shipping
> --------
> After receiving the payment I will order the batch of mats sets. Delivery to my QTH according to last phone calls to supplier is 2-3days.
> Immediately after I will check them, re-pack upon requests, fill the customs paperwork and will shipp to each of You.
> Each payment will be confirmed by separate email to You as same as the shipment of the package including the tracking number and link to tracking web page.
>
> My best regards,
>
> 73 - Petr, OK1RP
>

9654. RE: [AT_Sprint] Re: Whither KD1JV?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-07-31 19:38:23 UTC
From: Dale Putnam
Topic: 9637 Message: 9654

The only thing that would have made that journal any better, would have been, one of the "S"s traded in for a radio... and a short desertation of success during the AT Sprint. Other than that,.. (just kidding) .It is a very interesting read. Thank you Steve, I really enjoy the read.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: pgerhardt@...m
Date: Tue, 31 Jul 2012 14:36:00 +0000
Subject: [AT_Sprint] Re: Whither KD1JV?

Steve really enjoyed your trail journal! Have a good hike on the Long Trail.

BTW I enjoyed using the ATS-4 on the Flight of the Bumblebees last weekend from Lovettsville VA.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:

>

>

>

> > Anyone hear of the whereabouts of KD1JV?

> >

> I am alive and well, thank you. My trip ended a little earlier than expected

> and I've been home for a couple of weeks. You can read about my adventure

> and view some photos at

> http://www.trailjournals.com/entry.cfm?trailname=13144

>

> I'm not ready to go back to work yet, so will be heading over to Vermont to

> start hiking the Long Trail in a few days. See ya in September.

>

> Steve KD1JV

>

9655. Finished my MTR but no 40m???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-01 23:48:38 UTC
From: Tom
Topic: 9655 Message: 9655

So as you may have saw, I got an MTR kit the other day and I finished it (2 qsos down on 20m!!!) Very cool radio. It has the updated chip with the yellow dots. I built it for 40 and 20 but for some reason it defaulted to 80 and 20 so my switches only go between 80 and 20. How do I get it on 40? Did I miss something in the instructions?

9656. RE: [AT_Sprint] Finished my MTR but no 40m???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 00:12:05 UTC
From: Dale Putnam
Topic: 9655 Message: 9656

that is determined by the band resistors, R3 and R4, from your description, look real close at the soldering and values of R4.Good Luck,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: tom.campie@gmail.com
Date: Wed, 1 Aug 2012 23:48:38 +0000
Subject: [AT_Sprint] Finished my MTR but no 40m???

So as you may have saw, I got an MTR kit the other day and I finished it (2 qsos down on 20m!!!) Very cool radio. It has the updated chip with the yellow dots. I built it for 40 and 20 but for some reason it defaulted to 80 and 20 so my switches only go between 80 and 20. How do I get it on 40? Did I miss something in the instructions?

9657. Where do you get a MTR and what is the cost for the kit?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 01:13:40 UTC
From: pjatkin36
Topic: 9657 Message: 9657

Where do you get a MTR and what is the cost for the kit?

Thanks.....W5CRN

9658. Re: [AT_Sprint] Finished my MTR but no 40m???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 01:43:03 UTC
From: Thomas Campie
Topic: 9655 Message: 9658

Well I checked R4 and it is definitely 47K as prescribed. Any other ideas?

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Aug 1, 2012, at 7:12 PM, Dale Putnam <daleputnam@...> wrote:

>
> that is determined by the band resistors, R3 and R4, from your description, look real close at the soldering and values of R4.
> Good Luck,
>
> --... ...-- Dale - WC7S in Wy
>
> To: AT_Sprint@yahoogroups.com
> From: tom.campie@...
> Date: Wed, 1 Aug 2012 23:48:38 +0000
> Subject: [AT_Sprint] Finished my MTR but no 40m???
>
>
> So as you may have saw, I got an MTR kit the other day and I finished it (2 qsos down on 20m!!!) Very cool radio. It has the updated chip with the yellow dots. I built it for 40 and 20 but for some reason it defaulted to 80 and 20 so my switches only go between 80 and 20. How do I get it on 40? Did I miss something in the instructions?
>
>
>
>

9659. Re: [AT_Sprint] Where do you get a MTR and what is the cost for the kit?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 01:48:21 UTC
From: Hank Greeb
Topic: 9657 Message: 9659

The Mountain Top Radio (MTR) was/is a limited production kit.
"Probably" there will be another run of kits offered when Steve, KD1JV,
gets back from an extended hike.

Sometimes you'll see a kit for sale on this list and/or QRP-L. If you
see one for sale and want it, you should respond quickly because they go
rapidly. Price was around $100 if memory serveth correct.

It's essentialy a two band version of the AT-Sprint, with two band
modules installed in the radio.

72/73 de n8xx Hg

On 8/1/2012 9:13 PM, pjatkin36 wrote:
> Where do you get a MTR and what is the cost for the kit?
>
> Thanks.....W5CRN

9660. Re: Finished my MTR but no 40m???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 01:54:02 UTC
From: Milton A Riutort
Topic: 9655 Message: 9660

Hi Tom

By some reason, the last firmware published or loaded from Steve, has a band selecting code error and this cause this kind of problem. My MTR, was assembled for 30m / 20m band and after installing the new chip it start telling me that the bands are 40m and 20m.

Easy fix, you need to flash it with a firmware re-coded by Australian ham radio. Can't remember his name and I have the firmware on my laptop not here with this tablet. The bad new is that you need do few things and probably buy the board needed to connect the MTR to the computer for this task.

You can find more info on the the file folders on the Yahoo groups site. Please double check that your resistors on band select position, R3 and R4 are correct. R4 equal 47k (473)for 40m band. I guess your problem is the firmware, but check.

Good luck,

Milton A Riutort

9661. Re: [AT_Sprint] Where do you get a MTR and what is the cost for the kit?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 01:58:48 UTC
From: Gil G.
Topic: 9657 Message: 9661

Hello,

What about the ATS4B?
I couldn't even find a description on the Internet, but have seen one on Ebay...

Gil.
--
New site: http://radiopreppers.com
PGP Key: http://keskydee.com/gil.asc

On Aug 1, 2012, at 9:48 PM, Hank Greeb wrote:

> The Mountain Top Radio (MTR) was/is a limited production kit. "Probably" there will be another run of kits offered when Steve, KD1JV, gets back from an extended hike.

9662. Re: [AT_Sprint] Re: Finished my MTR but no 40m???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 02:00:12 UTC
From: Thomas Campie
Topic: 9655 Message: 9662

Oh yay! hrm… Anybody want to do this for me? I'd rather not go buy something I'll use once and never again. Would have just installed the original chip if I had known… Guess I still can. What would I be missing out on if I did just put the original chip on there?

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Aug 1, 2012, at 8:54 PM, Milton A Riutort <milton.riutort@...> wrote:

> Hi Tom
>
> By some reason, the last firmware published or loaded from Steve, has a band selecting code error and this cause this kind of problem. My MTR, was assembled for 30m / 20m band and after installing the new chip it start telling me that the bands are 40m and 20m.
>
> Easy fix, you need to flash it with a firmware re-coded by Australian ham radio. Can't remember his name and I have the firmware on my laptop not here with this tablet. The bad new is that you need do few things and probably buy the board needed to connect the MTR to the computer for this task.
>
> You can find more info on the the file folders on the Yahoo groups site. Please double check that your resistors on band select position, R3 and R4 are correct. R4 equal 47k (473)for 40m band. I guess your problem is the firmware, but check.
>
> Good luck,
>
> Milton A Riutort
>
>

9663. RE: [AT_Sprint] Finished my MTR but no 40m???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 03:18:07 UTC
From: Dale Putnam
Topic: 9655 Message: 9663

Check R3 and insure they are both soldered well...

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: tom.campie@...
Date: Wed, 1 Aug 2012 20:43:03 -0500
Subject: Re: [AT_Sprint] Finished my MTR but no 40m???

Well I checked R4 and it is definitely 47K as prescribed. Any other ideas?

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Aug 1, 2012, at 7:12 PM, Dale Putnam <daleputnam@...> wrote:

that is determined by the band resistors, R3 and R4, from your description, look real close at the soldering and values of R4.
Good Luck,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: tom.campie@gmail.com
Date: Wed, 1 Aug 2012 23:48:38 +0000
Subject: [AT_Sprint] Finished my MTR but no 40m???

So as you may have saw, I got an MTR kit the other day and I finished it (2 qsos down on 20m!!!) Very cool radio. It has the updated chip with the yellow dots. I built it for 40 and 20 but for some reason it defaulted to 80 and 20 so my switches only go between 80 and 20. How do I get it on 40? Did I miss something in the instructions?

9664. Broken toroid

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 09:29:13 UTC
From: Yannick (XV4Y)
Topic: 9664 Message: 9664

Hi,

I am currently assembly the through hole parts of my MTR kit.
One of the T30-2 cores is broken in 4 parts.
I am not sure if it was during the shipping as I have not seen it during the first visual inspection but I must admit this time I have not make a complete part inventory...

My question is : Is it possible to repair it with cyanoacrylate glue ?
I still have to look in my junk box I have not one. The fact is I am colorblind (not 100%) and I need really good day light to be sure of the colors.
We are still under a typhoon weather and I don't even remember having seen the sun last week.

Thanks for your help and advices.
73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

9665. Re: [AT_Sprint] Re: Finished my MTR but no 40m???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 18:59:28 UTC
From: TJ Campie
Topic: 9655 Message: 9665

btw, I found a TI board to program my MTR. Hope to have it all ready to go tonight! I posted some pictures of my MTR on the photos section. The case is a Lowes gift card holder. A bit bigger than an altoids tin, but flashier and roomy enough for a BNC or something like that. Check it out!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Aug 1, 2012 at 9:00 PM, Thomas Campie <tom.campie@...> wrote:

> Oh yay! hrm… Anybody want to do this for me? I'd rather not go buy
> something I'll use once and never again. Would have just installed the
> original chip if I had known… Guess I still can. What would I be missing
> out on if I did just put the original chip on there?
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> Because QRO is too easy
>
> On Aug 1, 2012, at 8:54 PM, Milton A Riutort <milton.riutort@...>
> wrote:
>
>
>
> Hi Tom
>
> By some reason, the last firmware published or loaded from Steve, has a
> band selecting code error and this cause this kind of problem. My MTR, was
> assembled for 30m / 20m band and after installing the new chip it start
> telling me that the bands are 40m and 20m.
>
> Easy fix, you need to flash it with a firmware re-coded by Australian ham
> radio. Can't remember his name and I have the firmware on my laptop not
> here with this tablet. The bad new is that you need do few things and
> probably buy the board needed to connect the MTR to the computer for this
> task.
>

> You can find more info on the the file folders on the Yahoo groups site.
> Please double check that your resistors on band select position, R3 and R4
> are correct. R4 equal 47k (473)for 40m band. I guess your problem is the
> firmware, but check.
>
> Good luck,
>
> Milton A Riutort
>
>
>
>
>

9666. Re: [AT_Sprint] Broken toroid

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 20:34:03 UTC
From: Hank Greeb
Topic: 9664 Message: 9666

Steve will be happy to send a new toroid, but he's on a hike right now.
Perhaps someone else on this reflector has a spare of the right
mix/size. I'd NOT try to repair the thing, because you can't get the
parts close enough to each other NOT disrupt the magnetic field.

72/73 de n8xx Hg

On 8/2/2012 5:29 AM, Yannick (XV4Y) wrote:
> Hi,
>
> I am currently assembly the through hole parts of my MTR kit.
> One of the T30-2 cores is broken in 4 parts.
> I am not sure if it was during the shipping as I have not seen it during the first visual inspection but I must admit this time I have not make a complete part inventory...
>
> My question is : Is it possible to repair it with cyanoacrylate glue ?
> I still have to look in my junk box I have not one. The fact is I am colorblind (not 100%) and I need really good day light to be sure of the colors.
> We are still under a typhoon weather and I don't even remember having seen the sun last week.
>
> Thanks for your help and advices.
> 73,
> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
> http://www.qslwatch.com/

9667. Re: [AT_Sprint] Broken toroid

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-02 23:19:20 UTC
From: Yannick DEVOS (XV4Y)
Topic: 9664 Message: 9667

Hi Hamk,

Thanks for your comment.
However no need to send one. Yesterday I went through the SoftRock RXTX part list and since I built the kit for 30/20/17m I should have 2 T30-2 left the lower bands possibility.
I have not checked the junk box yet but there is no reason they are not there.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 3 août 2012 à 03:34, Hank Greeb a écrit :

>
>
> Steve will be happy to send a new toroid, but he's on a hike right now. Perhaps someone else on this reflector has a spare of the right mix/size. I'd NOT try to repair the thing, because you can't get the parts close enough to each other NOT disrupt the magnetic field.
>
> 72/73 de n8xx Hg
>
> On 8/2/2012 5:29 AM, Yannick (XV4Y) wrote:
>> Hi,
>>
>> I am currently assembly the through hole parts of my MTR kit.
>> One of the T30-2 cores is broken in 4 parts.
>> I am not sure if it was during the shipping as I have not seen it during the first visual inspection but I must admit this time I have not make a complete part inventory...
>>
>> My question is : Is it possible to repair it with cyanoacrylate glue ?
>> I still have to look in my junk box I have not one. The fact is I am colorblind (not 100%) and I need really good day light to be sure of the colors.
>> We are still under a typhoon weather and I don't even remember having seen the sun last week.
>>
>> Thanks for your help and advices.
>> 73,
>> Yan.
>> ---
>> Yannick DEVOS - XV4Y
>> http://xv4y.radioclub.asia/
>> http://varc.radioclub.asia/
>> http://www.qslwatch.com/

>
>
>

9668. Re: [AT_Sprint] Re: Finished my MTR but no 40m???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-03 12:30:44 UTC
From: TJ Campie
Topic: 9655 Message: 9668

Update: got the MTR on 40m last night, took a bit longer than I had planned since I live in a no PC house! Did manage to get VMware to recognize the TI board and flashing the new firmware was easy enough after that. First QSO on 40 was with a station /P in MI state park somewhere. I am really smitten with this radio. I think everybody should have one!

I'll be in the NAQP CW contest this weekend with my MTR on the AT_Sprint team so keep your ears open for me.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Thu, Aug 2, 2012 at 1:59 PM, TJ Campie <tom.campie@gmail.com> wrote:

> btw, I found a TI board to program my MTR. Hope to have it all ready to go
> tonight! I posted some pictures of my MTR on the photos section. The case
> is a Lowes gift card holder. A bit bigger than an altoids tin, but
> flashier and roomy enough for a BNC or something like that. Check it out!
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Wed, Aug 1, 2012 at 9:00 PM, Thomas Campie <tom.campie@...>wrote:
>
>> Oh yay! hrm… Anybody want to do this for me? I'd rather not go buy
>> something I'll use once and never again. Would have just installed the
>> original chip if I had known… Guess I still can. What would I be missing
>> out on if I did just put the original chip on there?
>>
>> 73, W0EA
>> TJ
>> ----
>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>> NAQCC #3768 | Flying Pigs QRP #2254
>> Elecraft KX3 SN 288

>> Because QRO is too easy
>>
>> On Aug 1, 2012, at 8:54 PM, Milton A Riutort <milton.riutort@...>
>> wrote:
>>
>>
>>
>> Hi Tom
>>
>> By some reason, the last firmware published or loaded from Steve, has a
>> band selecting code error and this cause this kind of problem. My MTR, was
>> assembled for 30m / 20m band and after installing the new chip it start
>> telling me that the bands are 40m and 20m.
>>
>> Easy fix, you need to flash it with a firmware re-coded by Australian ham
>> radio. Can't remember his name and I have the firmware on my laptop not
>> here with this tablet. The bad new is that you need do few things and
>> probably buy the board needed to connect the MTR to the computer for this
>> task.
>>
>> You can find more info on the the file folders on the Yahoo groups site.
>> Please double check that your resistors on band select position, R3 and R4
>> are correct. R4 equal 47k (473)for 40m band. I guess your problem is the
>> firmware, but check.
>>
>> Good luck,
>>
>> Milton A Riutort
>>
>>
>>
>>
>>
>

9669. Re: [AT_Sprint] Finished my MTR but no 40m???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-03 13:47:03 UTC
From: Johnny Matlock
Topic: 9655 Message: 9669

Gm TJ
Glad she is working for you.
Which file did you use to flash with?
Is the one in the MTR folder the good one ?
Tnx 72
Johnny AC0BQ

On Friday, August 3, 2012, TJ Campie wrote:

> **
>
>
> Update: got the MTR on 40m last night, took a bit longer than I had
> planned since I live in a no PC house! Did manage to get VMware to
> recognize the TI board and flashing the new firmware was easy enough after
> that. First QSO on 40 was with a station /P in MI state park somewhere. I
> am really smitten with this radio. I think everybody should have one!
>
> I'll be in the NAQP CW contest this weekend with my MTR on the AT_Sprint
> team so keep your ears open for me.
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Thu, Aug 2, 2012 at 1:59 PM, TJ Campie <tom.campie@gmail.com<javascript:_e({}, 'cvml', 'tom.campie@...');>
> > wrote:
>
>> btw, I found a TI board to program my MTR. Hope to have it all ready to
>> go tonight! I posted some pictures of my MTR on the photos section. The
>> case is a Lowes gift card holder. A bit bigger than an altoids tin, but
>> flashier and roomy enough for a BNC or something like that. Check it out!
>>
>> 73, W0EA
>> TJ
>> ----
>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>> NAQCC #3768 | Flying Pigs QRP #2254
>> Elecraft KX3 SN 288

>> *Because QRO is too easy*
>>
>>
>> On Wed, Aug 1, 2012 at 9:00 PM, Thomas Campie <tom.campie@...<javascript:_e({}, 'cvml', 'tom.campie@...');>
>> > wrote:
>>
>>> Oh yay! hrm… Anybody want to do this for me? I'd rather not go buy
>>> something I'll use once and never again. Would have just installed the
>>> original chip if I had known… Guess I still can. What would I be missing
>>> out on if I did just put the original chip on there?
>>>
>>> 73, W0EA
>>> TJ
>>> ----
>>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>>> NAQCC #3768 | Flying Pigs QRP #2254
>>> Elecraft KX3 SN 288
>>> Because QRO is too easy
>>>
>>> On Aug 1, 2012, at 8:54 PM, Milton A Riutort <milton.riutort@...<javascript:_e({}, 'cvml', 'milton.riutort@gmail.com');>>
>>> wrote:
>>>
>>>
>>>
>>> Hi Tom
>>>
>>> By some reason, the last firmware published or loaded from Steve, has a
>>> band selecting code error and this cause this kind of problem. My MTR, was
>>> assembled for 30m / 20m band and after installing the new chip it start
>>> telling me that the bands are 40m and 20m.
>>>
>>> Easy fix, you need to flash it with a firmware re-coded by Australian
>>> ham radio. Can't remember his name and I have the firmware on my laptop not
>>> here with this tablet. The bad new is that you need do few things and
>>> probably buy the board needed to connect the MTR to the computer for this
>>> task.
>>>
>>> You can find more info on the the file folders on the Yahoo groups site.
>>> Please double check that your resistors on band select position, R3 and R4
>>> are correct. R4 equal 47k (473)for 40m band. I guess your problem is the
>>> firmware, but check.
>>>
>>> Good luck,
>>>
>>> Milton A Riutort
>>>
>>>
>>>

>>
>
>

9670. Re: [AT_Sprint] Finished my MTR but no 40m???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-03 13:51:51 UTC
From: TJ Campie
Topic: 9655 Message: 9670

I flashed the one from the MTR Flash.zip file posted by david_blunn

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Aug 3, 2012 at 8:47 AM, Johnny Matlock <jomatlock@...> wrote:

> **
>
>
> Gm TJ
> Glad she is working for you.
> Which file did you use to flash with?
> Is the one in the MTR folder the good one ?
> Tnx 72
> Johnny AC0BQ
>
> On Friday, August 3, 2012, TJ Campie wrote:
>
>> **
>>
>>
>> Update: got the MTR on 40m last night, took a bit longer than I had
>> planned since I live in a no PC house! Did manage to get VMware to
>> recognize the TI board and flashing the new firmware was easy enough after
>> that. First QSO on 40 was with a station /P in MI state park somewhere. I
>> am really smitten with this radio. I think everybody should have one!
>>
>> I'll be in the NAQP CW contest this weekend with my MTR on the AT_Sprint
>> team so keep your ears open for me.
>>
>> 73, W0EA
>> TJ
>> ----
>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>> NAQCC #3768 | Flying Pigs QRP #2254
>> Elecraft KX3 SN 288
>> *Because QRO is too easy*
>>
>>
>> On Thu, Aug 2, 2012 at 1:59 PM, TJ Campie <tom.campie@...> wrote:

>>
>>> btw, I found a TI board to program my MTR. Hope to have it all ready to
>>> go tonight! I posted some pictures of my MTR on the photos section. The
>>> case is a Lowes gift card holder. A bit bigger than an altoids tin, but
>>> flashier and roomy enough for a BNC or something like that. Check it out!
>>>
>>> 73, W0EA
>>> TJ
>>> ----
>>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>>> NAQCC #3768 | Flying Pigs QRP #2254
>>> Elecraft KX3 SN 288
>>> *Because QRO is too easy*
>>>
>>>
>>> On Wed, Aug 1, 2012 at 9:00 PM, Thomas Campie <tom.campie@...>wrote:
>>>
>>>> Oh yay! hrm… Anybody want to do this for me? I'd rather not go buy
>>>> something I'll use once and never again. Would have just installed the
>>>> original chip if I had known… Guess I still can. What would I be missing
>>>> out on if I did just put the original chip on there?
>>>>
>>>> 73, W0EA
>>>> TJ
>>>> ----
>>>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>>>> NAQCC #3768 | Flying Pigs QRP #2254
>>>> Elecraft KX3 SN 288
>>>> Because QRO is too easy
>>>>
>>>> On Aug 1, 2012, at 8:54 PM, Milton A Riutort <milton.riutort@...>
>>>> wrote:
>>>>
>>>>
>>>>
>>>> Hi Tom
>>>>
>>>> By some reason, the last firmware published or loaded from Steve, has a
>>>> band selecting code error and this cause this kind of problem. My MTR, was
>>>> assembled for 30m / 20m band and after installing the new chip it start
>>>> telling me that the bands are 40m and 20m.
>>>>
>>>> Easy fix, you need to flash it with a firmware re-coded by Australian
>>>> ham radio. Can't remember his name and I have the firmware on my laptop not
>>>> here with this tablet. The bad new is that you need do few things and
>>>> probably buy the board needed to connect the MTR to the computer for this
>>>> task.
>>>>
>>>> You can find more info on the the file folders on the Yahoo groups
>>>> site. Please double check that your resistors on band select position, R3

>>>> and R4 are correct. R4 equal 47k (473)for 40m band. I guess your problem is
>>>> the firmware, but check.
>>>>
>>>> Good luck,
>>>>
>>>> Milton A Riutort
>>>>
>>>>
>>>>
>>>
>>
>

9671. Last Call, volunteers for AT-Sprint Team members, NAQP, August 4/5

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-03 14:57:28 UTC
From: Hank Greeb
Topic: 9671 Message: 9671

WE now have the following suckers, errrr, volunteers for "AT-Sprint" teams for the North American QSO Party CW (NAQP) this coming Saturday. The event starts at 1800Z Saturday, and runs until 0600Z Sunday.

The members so far are: NS7E, W0EA, AA4GA, N6OSB. WC7S. N8XX

K0EVZ had to bow out for personal reasons. We will miss you Doc, and understand that other obligations get in the way of hamming from time to time.

Full details of NAQP are at http://www.ncjweb.com/naqprules.php

We have room for as many suckers, errr, volunteers as can have their arms (or legs) twisted to join us..

As I said before, the only requirement is that you have, and agree to use, any of the several rigs designed by Steven Weber, KD1JV (AT-Sprint series, Mountain Top Radio, Portable Field Radio, etc.). You need NOT operate the full 10 hours allowed (but give it the "olde college try" if you're part time).

I'll wait until tomorrow (Saturday) at 1200Z (8 a.m. EDT) for suckers, errrr.... volunteers. Please let me know your availability.

72/73 de n8xx Hg

9672. Re: [AT_Sprint] ATS QSO Party Logs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-05 09:18:12 UTC
From: Wilford D Lindsey
Topic: 9577 Message: 9672

Sir Lee:

Just wondering = is it way too late to email my log to you?

No laughing. My wife of 45 years is literally dying with cancer. Vy vy bad indeed. My heart is breaking over it all, so unfair. BUT during time for da contest her sister was here to help me some. So I took a wee bit of da time you know, not so much, but logged looks like 17 QSO altogether, mebbe enuf to turn in the log do you tink or mebbe jes too late I will for sure unnerstann.

Pleese to adwise tank yew werry much, sir.

Wit utmost respeckt,

73,
Doc/K0EVZ
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: Lee Hiers <lee.hiers@gmail.com>
Sender: AT_Sprint@yahoogroups.com
Date: Sun, 22 Jul 2012 15:10:40
To: <AT_Sprint@yahoogroups.com>
Reply-To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] ATS QSO Party Logs

Get them in folks! I just added a page to the site that shows logs
received.

http://ats-sprint.blogspot.com/p/logs-received.html

Logs to atslogs@aa4ga.com

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

9673. Re: [AT_Sprint] ATS QSO Party Logs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-05 13:52:07 UTC
From: Hank Greeb
Topic: 9577 Message: 9673

Thanks, Doc:

Send your log, in whatever (text or paper) form you have it, to me.
I'll massage it into a Cabrillo file and upload it to the NA Sprint
contest group. You won't be an "official" member of the AT-Sprinters -
we had to enter those before the contest, but any "help" with the
AT-Sprint group will be appreciated in the overall club listing.

Our thoughts and prayers are with you in your wife's struggle with cancer.

72/73 de n8xx Hg

On 8/5/2012 5:18 AM, Wilford D Lindsey wrote:
>
>
> Sir Lee:
>
> Just wondering = is it way too late to email my log to you?
>
> No laughing. My wife of 45 years is literally dying with cancer. Vy vy
> bad indeed. My heart is breaking over it all, so unfair. BUT during
> time for da contest her sister was here to help me some. So I took a
> wee bit of da time you know, not so much, but logged looks like 17 QSO
> altogether, mebbe enuf to turn in the log do you tink or mebbe jes too
> late I will for sure unnerstann.
>
> Pleese to adwise tank yew werry much, sir.
>
> Wit utmost respeckt,
>
> 73,
> Doc/K0EVZ
> Sent from my Verizon Wireless BlackBerry
> ---
> *From: * Lee Hiers <lee.hiers@...>
> *Sender: * AT_Sprint@yahoogroups.com
> *Date: *Sun, 22 Jul 2012 15:10:40 -0400
> *To: *<AT_Sprint@yahoogroups.com>
> *ReplyTo: * AT_Sprint@yahoogroups.com
> *Subject: *[AT_Sprint] ATS QSO Party Logs
>
> Get them in folks! I just added a page to the site that shows logs
> received.
>
>
> http://ats-sprint.blogspot.com/p/logs-received.html

>
> Logs to atslogs@... <mailto:atslogs@...>
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com <http://www.aa4ga.com>
>
>
>
>

9674. Re: ATS3b.1 15-20m output power droop

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-06 02:46:19 UTC
From: mdpowell1977
Topic: 7476 Message: 9674

I'm still struggling with this and have a bit more data.

With a 12 V supply, power output on 40m and 30m is a solid steady 5 W (or more) under extended keydown.

20m, 17m, and 15m start at 5, 5, and 3.7W but droop to 1.8, 1.6, and 1.2 W after 7, 5, and 1.5 seconds of keydown respectively.

Measurements are being taken from an o-scope connected to the TX wire on the rig with the output being into a good 50-ohm BNC terminator connected directly to the rig's BNC connector with no coax.

An additional finding is that the 5V regulator output is drooping as well, as measured from the 100uF C58. Output is steady at 5 V on other bands and when not transmitting. On 20m, 17m, and 15m, it droops to 3.7V, 3.6V, and 3.1V at the same rate as the output power. Power from this supply ultimately drives the NOR gates that drive the BS-170 finals, which makes me wonder if the reduced voltage is causing the power droop or a symptom of some sort. The input voltage drops only 70 mV from 11.98 to 11.91 V under 15m keydown, so that's not the problem.

Does this bring any potential issues to mind? Thanks.

--Mike (w1ku)

9675. Re: ATS3b.1 15-20m output power droop

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-06 05:36:51 UTC
From: jgaffke
Topic: 7476 Message: 9675

Wow, cool problem!

Check the solder job on the regulator and the bypass
caps near the regulator on the 12v and 5v rails.
If nothing looks amiss, replace the regulator,
and perhaps those nearby caps as well.
If it still does not work, put a 10 ohm resistor in series
with the input to the regulator so you can measure the
current, and report back with your voltage measurements
across that resistor.

Yes, 3.1v at those NOR gates is probably not
turning on the BS-170's hard enough.
Those NOR gates will suck more power from the 5v rail
as the frequency goes up.

Missing caps can cause the regulator to oscillate.
You may see an oscillation if you put a scope
on the 5v rail.

The regulator will shut down if too much current goes
through it as determined by an internal temperature sensor.
That might explain the time lag. Perhaps the regulator
is not soldered down to the board well enough, so it
cannot dissipate the heat properly. Or perhaps that
internal temperature sensor is out of whack.
Or perhaps something is wrong elsewhere on the 5v rail
that is sucking more power than it should.

Good luck!
Jerry Gaffke, KE7ER

--- In AT_Sprint@yahoogroups.com, "mdpowell1977" <mdpowell@...> wrote:
> 20m, 17m, and 15m start at 5, 5, and 3.7W but droop to 1.8, 1.6, and 1.2 W after 7, 5, and 1.5 seconds of keydown respectively.
> An additional finding is that the 5V regulator output is drooping

9676. Wanted Any ATS-

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-06 16:53:21 UTC
From: wa2ohf
Topic: 9676 Message: 9676

Wanted ANY ATS - kit asembled partialy assembled or still in the package or not
Please call or E-mail me @ arthurripple@... 952-758-2421? with price $$

Thanks Arthur NS7E

9677. Re: [AT_Sprint] The First ATS-Sprint is in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-07 21:16:44 UTC
From: Peter Martin
Topic: 9552 Message: 9677

On Sun, Jul 22, 2012 at 4:11 AM, Dale Putnam <daleputnam@...> wrote:

>
>
> I know of at least two European stations, that worked the Sprint,
> tonight, and likely more.. and there were a number of folks on that I
> couldn't hear.. but it was so much fun to get on and see all the friends
> around.. and to play with the rigs.. and just generally have fun on the
> radio.
>

As it's quiet in here of late, I'll ask the question:

Will there be a report on how the sprint went?
Number of participants, #of contacts etc.?

It was hard going here, with the pond to cross to get to all you guys!

Pete
G4ISJ

9678. Re: [AT_Sprint] The First ATS-Sprint is in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-08 01:18:26 UTC
From: Lee Hiers
Topic: 9552 Message: 9678

On Tue, Aug 7, 2012 at 5:16 PM, Peter Martin <paradoxpete.pdm@...>wrote:

Will there be a report on how the sprint went?
> Number of participants, #of contacts etc.?
>

Hey Pete!

Yes, we'll be getting a writeup done in the next week or two - I haven't had a huge bunch of logs turned in, so I'm planning on sending out "reminders" to folks that didn't submit - so we can hopefully generate a little more interest for next time around.

It was hard going here, with the pond to cross to get to all you guys!
>

Awful hard going here too, unfortunately! We'll just have to look forward to better condx for the next running.

73 and thanks for playing!

Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.comand click on "QRP DXCC" for more info!

9679. best way to break apart ATS-3B band modules

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-07 22:58:39 UTC
From: scottg720
Topic: 9679 Message: 9679

What's the best (safest) way to separate the individual band module boards for the ATS-3B?

Tnx and 73,
Scott, K1OA

9680. RE: [AT_Sprint] best way to break apart ATS-3B band modules

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-08 02:25:34 UTC
From: Dale Putnam
Topic: 9679 Message: 9680

It works rather well, to grip so the force is along the etched line.. this works real well, right down until you need to do the last one.. then it gets a bit tuffer,I like to use a sharp edged table or chair edge to hold down the one module board and force against the other again, along the line.Good luck,
--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: k1oa@...
Date: Tue, 7 Aug 2012 22:58:39 +0000
Subject: [AT_Sprint] best way to break apart ATS-3B band modules

What's the best (safest) way to separate the individual band module boards for the ATS-3B?

Tnx and 73,

Scott, K1OA

9681. RE: [AT_Sprint] The First ATS-Sprint is in the bag

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-08 02:27:39 UTC
From: Dale Putnam
Topic: 9552 Message: 9681

The Prop Princess had her fun, and we were the subjects at hand. Next time will be a whole bunch better.. and with a bit of a nod or smile from her, we'll do right well.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: lee.hiers@...
Date: Tue, 7 Aug 2012 21:18:26 -0400
Subject: Re: [AT_Sprint] The First ATS-Sprint is in the bag

On Tue, Aug 7, 2012 at 5:16 PM, Peter Martin <paradoxpete.pdm@...> wrote:

Will there be a report on how the sprint went?
Number of participants, #of contacts etc.?

Hey Pete!
Yes, we'll be getting a writeup done in the next week or two - I haven't had a huge bunch of logs turned in, so I'm planning on sending out "reminders" to folks that didn't submit - so we can hopefully generate a little more interest for next time around.

It was hard going here, with the pond to cross to get to all you guys!

Awful hard going here too, unfortunately! We'll just have to look forward to better condx for the next running.
73 and thanks for playing!

Lee--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.com and click on "QRP DXCC" for more info!

9682. MTR BFO intermittent problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-10 01:45:35 UTC
From: Yannick (XV4Y)
Topic: 9682 Message: 9682

Hi,

I have finished the mounting of my Mountain Topper Rig.
Everything went well so far and I had great pleasure mounting the rig.
The "basic" tests are ok : annunciation, LED display, keyer, audio... everything is ok.
When I go into calibration mode I have a carrier at 10MHz and looking to it with my SDR transceiver it is fairly close to 10 MHz (my SDR calibration is pretty good too).
Then yesterday evening I went into BFO setting mode. I heard a rather loud low pitch tone.
I started to play with "UP/DOWN" and then it disappeared.
I tried to restart the calibration sequence, the 10MHz at TP1 is still there so I think the DDS works ok. Still no tone and it seems no receive either.
I had a last check on the TP1 voltage while not in calibration mode (in normal mode) and it is not 0V anymore...
It was late and I gave up.

This morning I put my SDR in transmitting a 14.060 carrier to a dummy load and listening to it on the MTR.
I heard noise! Not the carrier (but did not peak the filters already) but the normal noise you have on a receiver.
I then switch to the Calibration mode so to hear the BFO tone is back! Good news.
I went thought the calibration again but while I was playing with the BT1 adjustable cap, the sound again disappeared and no receiving anymore...

I am currently checking the voltage around the mixers but found nothing strange so far.
Does one of you have an idea about what could be going on ?

Thanks for your help.
73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

9683. Re: [AT_Sprint] MTR BFO intermittent problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-10 09:58:24 UTC
From: XV4Y
Topic: 9682 Message: 9683

Dale and fellow ATS/MTR owners,

My rig is now working. I felt in a good mood and went straight to check TX.
I got a short (bad small coax cable) but the PA is forgiving even with 12 V.
Now I have more than 4W on 30m and 5W and 20 with 12,5V. Plenty of power for QRP.
The BANDA (30m) adjustable caps are both at limit range but I think I don't need to worry.

I just had my first QSO with JA1NUT, 4000km with 5W in the ground plane, what else can I ask for ?
Everybody here already know it but audio is good and the ergonomic great for such a little rig.
Now I have to think about a portable 20m GP that I can install at the farm...

Thanks Steve for this great rig.
73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

>
> Le 10 août 2012 à 09:12, Dale Putnam a écrit :
>
>> That has the "feel" of a solder connection,..... Kinda like that is exactly what has happened to me too.
>> Good luck!
>> Have a great day,
>> Dale - WC7S
>>
>> -----Original Message-----
>> From: "Yannick (XV4Y)" <yannick.devos@...>
>> Date: Fri, 10 Aug 2012 01:45:35
>> To: <AT_Sprint@yahoogroups.com>
>> Subject: [AT_Sprint] MTR BFO intermittent problem
>>
>>
>>
>>
>>
>> Hi,
>>
>> I have finished the mounting of my Mountain Topper Rig.
>> Everything went well so far and I had great pleasure mounting the rig.
>> The "basic" tests are ok : annunciation, LED display, keyer, audio... everything is ok.

>> When I go into calibration mode I have a carrier at 10MHz and looking to it with my SDR transceiver it is fairly close to 10 MHz (my SDR calibration is pretty good too).
>> Then yesterday evening I went into BFO setting mode. I heard a rather loud low pitch tone. I started to play with "UP/DOWN" and then it disappeared.
>> I tried to restart the calibration sequence, the 10MHz at TP1 is still there so I think the DDS works ok. Still no tone and it seems no receive either.
>> I had a last check on the TP1 voltage while not in calibration mode (in normal mode) and it is not 0V anymore...
>> It was late and I gave up.
>>
>> This morning I put my SDR in transmitting a 14.060 carrier to a dummy load and listening to it on the MTR.
>> I heard noise! Not the carrier (but did not peak the filters already) but the normal noise you have on a receiver.
>> I then switch to the Calibration mode so to hear the BFO tone is back! Good news.
>> I went thought the calibration again but while I was playing with the BT1 adjustable cap, the sound again disappeared and no receiving anymore...
>>
>> I am currently checking the voltage around the mixers but found nothing strange so far.
>> Does one of you have an idea about what could be going on ?
>>
>> Thanks for your help.
>> 73,
>> Yan.
>> ---
>> Yannick DEVOS - XV4Y
>> http://xv4y.radioclub.asia/
>> http://varc.radioclub.asia/
>> http://www.qslwatch.com/
>>
>>
>>

9684. WTB: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-11 18:10:52 UTC
From: Christian AK4VV
Topic: 9684 Message: 9684

Hi there,

I would like to buy an unbuilt MTR kit. Please contact me if you have one or know where one is to be had.

73,
Christian
AK4VV

Sent from my iPad

9685. Skeeter Hunt today!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-12 12:03:47 UTC
From: Larry Makoski
Topic: 9685 Message: 9685

The First Annual NJQRP Skeeter Hunt is this afternoon!

123 Skeeter numbers have been issued - so there will be lots o' Skeeters to swat at today!

If you don't have anumber, don't let that stop you from getting on the air and joining in on the fun.

All details are at:

http://www.qsl.net/w2lj/

72 de Larry W2LJ

Get on and join us and have fun!

9686. NAQCC Sprint Tuesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-12 14:24:12 UTC
From: NAQCC
Topic: 2905 Message: 9686

NAQCC Sprint Tuesday night!

Our August sprint is this coming Tuesday evening local time (August 14, EDT - 8:30-10:30PM, CDT - 7:30-9:30PM, MDT - 6:30-8:30PM, PDT - 5:30-7:30PM), which translates as Wednesday August 15, 0030-0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201208.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX. A Certificate for top score in the GAIN antenna category. Finally there is one more award - a certificate to the highest score from a first-time participant.

Prizes: A prize of a set of bug/paddle handles or a K1/K2 knob insert donated by master woodworker Gregg WB8LZG is awarded for each sprint to the winner of a random drawing among all participants. Previous winners are not eligible.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6100+ members in: All 50 States - 9 VE Provinces - 90 Countries. Just sign up on the NAQCC website (http://naqcc.info/) and you will receive a handsome certificate, with your membership number which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

9687. Re: [AT_Sprint] Skeeter Hunt today!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-12 16:20:43 UTC
From: David Karpiej
Topic: 9685 Message: 9687

Hi Larry,
Help! I forgot my skeeter number.
73,
Dave K1THP

--- On Sun, 8/12/12, Larry Makoski <w2lj@...> wrote:

From: Larry Makoski <w2lj@verizon.net>
Subject: [AT_Sprint] Skeeter Hunt today!
To: AT_Sprint@yahoogroups.com
Date: Sunday, August 12, 2012, 8:03 AM

The First Annual NJQRP Skeeter Hunt is this afternoon!

123 Skeeter numbers have been issued - so there will be lots o' Skeeters to swat at today!

If you don't have anumber, don't let that stop you from getting on the air and joining in on the fun.

All details are at:

http://www.qsl.net/w2lj/

72 de Larry W2LJ

Get on and join us and have fun!

Yahoo! Groups Links

9688. Re: [AT_Sprint] Skeeter Hunt today!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-12 20:39:04 UTC
From: Lee Hiers
Topic: 9685 Message: 9688

Dave....

You are 61
On Aug 12, 2012 4:05 PM, "David Karpiej" <karpiejd@att.net> wrote:

> **
>
>
> Hi Larry,
> Help! I forgot my skeeter number.
> 73,
> Dave K1THP
>
> --- On *Sun, 8/12/12, Larry Makoski <w2lj@...>* wrote:
>
>
> From: Larry Makoski <w2lj@...>
> Subject: [AT_Sprint] Skeeter Hunt today!
> To: AT_Sprint@yahoogroups.com
> Date: Sunday, August 12, 2012, 8:03 AM
>
> The First Annual NJQRP Skeeter Hunt is this afternoon!
>
> 123 Skeeter numbers have been issued - so there will be lots o' Skeeters
> to swat at today!
>
> If you don't have anumber, don't let that stop you from getting on the air
> and joining in on the fun.
>
> All details are at:
>
> http://www.qsl.net/w2lj/
>
> 72 de Larry W2LJ
>
> Get on and join us and have fun!
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

>
>

9689. New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-12 20:42:14 UTC
From: Christopher
Topic: 9689 Message: 9689

Hello, my name is Chris Maness (KQ6UP). I have been bitten by the bug to build a small HF tranceiver for camping trips. Are these kits still available? This seems like the best compact size QRP rig that I have seen.

I teach high school chemistry in physics. I have been a ham since I was 14 years old (almost 40 now). I am also into large format photography and the great outdoors. I like to shoot 35mm when I am on my motorcycle, and 4x5" or 8x10" when I am in my jeep.

Chris

9690. Re: [AT_Sprint] New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-12 23:17:55 UTC
From: Yannick DEVOS (XV4Y)
Topic: 9689 Message: 9690

Hi Chris,

Right now there are no kits available.
Steve de KD1JV is currently on holidays and he will try to think on a new run of kits in september.
The specifications of the next kit are not known.
Steve just finished a new design (the Mountain Topper Rig) with 150 units sold in less than 24 hours I think.
Perhaps the new kit will be similar (2 bands, fitting in an Altoid sized box) or more evolved technically like the ATS-4 serie.

I personally just finished to build my MTR. It was perhaps the more demanding kit I had to assemble because almost all the components are SMD and they are all packed on small PCB area. However, it worked from the first start with just a little error from my part.
The rig by itself really is a great performer offering modern features and performance level. Once you read the manual the ergonomic is good for such a small package.
I saw the KX3 now topped the Sherwood comparison table. I don't know where the MTR would be, but we are not talking about the same price, the same weight and you cannot build a KX3 yourself (really building I mean).

If you would like to buy a kit from KD1JV, just read the e-mails coming from this list.
The list is not polluted by unrelated content and you will learn a lot about theses kits.
There are sometime secondhand kits or already assembled rigs that could came available...

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 13 août 2012 à 03:42, Christopher a écrit :

> Hello, my name is Chris Maness (KQ6UP). I have been bitten by the bug to build a small HF tranceiver for camping trips. Are these kits still available? This seems like the best compact size QRP rig that I have seen.
>
> I teach high school chemistry in physics. I have been a ham since I was 14 years old (almost 40 now). I am also into large format photography and the great outdoors. I like to shoot 35mm when I am on my motorcycle, and 4x5" or 8x10" when I am in my jeep.
>
> Chris
>
>
>
> ----------

>
> Yahoo! Groups Links
>
>
>

9691. ATS QSO Party - last call for logs!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-13 02:29:48 UTC
From: Lee Hiers
Topic: 9691 Message: 9691

Hey folks, I've been a bit busy at work lately and haven't worked on the writeup for the ATS QSO Party as much as I'd have liked, so you've still got a chance to get your logs in.

Go check the list of received logs at http://ats-sprint.blogspot.com/p/logs-received.html and if you're not listed, get you log (just a list of QSOs with info - no special format needed) in to me ASAP!

We've got to get this one buttoned up so we can start planning the next one! ;-)

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to aa4ga.comand click on "QRP DXCC" for more info!

9692. Re: [AT_Sprint] New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-13 02:18:38 UTC
From: Chris Maness
Topic: 9689 Message: 9692

Well since Steve is on vacation, what low priced rig would you recommend building for the time being? I was looking at this rig, but I don't need SSB:

http://kd1jv.qrpradio.com/ARRLHBC/ARRL_MMR40.html

I already own a FT-817. I was looking into something that was smaller and more compact that I could run off of a solar cell and a ultra capacitor. If I want to get really alternative, I could have sterling engine run a small D.C. generator too.

Regards,
Chris Maness

9693. RE: [AT_Sprint] New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-13 11:57:15 UTC
From: Dale Putnam
Topic: 9689 Message: 9693

If you could find a TriBander, sold by Hendricks, or a PFR-3, same source, they would be my choice. However, Doug Hendricks is dealing witha personal situation, the last check of his website was indicating a pause in shipments just now.Maybe someone has one on a shelf somewhere?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: chris@...
Date: Sun, 12 Aug 2012 19:18:38 -0700
Subject: Re: [AT_Sprint] New to the Group

Well since Steve is on vacation, what low priced rig would you

recommend building for the time being? I was looking at this rig, but

I don't need SSB:

http://kd1jv.qrpradio.com/ARRLHBC/ARRL_MMR40.html

I already own a FT-817. I was looking into something that was

smaller and more compact that I could run off of a solar cell and a

ultra capacitor. If I want to get really alternative, I could have

sterling engine run a small D.C. generator too.

Regards,

Chris Maness

9694. Re: New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-13 13:16:14 UTC
From: n1rx
Topic: 9689 Message: 9694

It would help to know how you define "low cost"... $50? $100? $200? Also, multiband/single band? When you say "solar cell", I assume you mean a small solar -panel-, as single cells have somehwat less than 0.5v output each. The power available from your solar panel into a supercapacitor, will determine what is realistic for rx current drain, TX output power, etc. Determining your power budget will set limits on what you can resonably expect. I don't know of anyone who has used this power combo (solar/capacitor) although many of us have used LiPo batteries (lightweight) supported by small solar panels.

It can be fun to define the terms, and let that help lead you to the answers...
GL,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, Chris Maness <chris@...> wrote:
>
> Well since Steve is on vacation, what low priced rig would you
> recommend building for the time being? I was looking at this rig, but
> I don't need SSB:
>
> http://kd1jv.qrpradio.com/ARRLHBC/ARRL_MMR40.html
>
> I already own a FT-817. I was looking into something that was
> smaller and more compact that I could run off of a solar cell and a
> ultra capacitor. If I want to get really alternative, I could have
> sterling engine run a small D.C. generator too.
>
> Regards,
> Chris Maness
>

9695. Re: [AT_Sprint] Re: New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-13 18:36:49 UTC
From: Chris Maness
Topic: 9689 Message: 9695

On Mon, Aug 13, 2012 at 6:16 AM, n1rx <bruce.beford@...> wrote:
> It would help to know how you define "low cost"... $50? $100? $200?

~$50-$100

Also, multiband/single band?

Prob 40 & 20m

When you say "solar cell", I assume you mean a small solar -panel-, as single cells have somehwat less than 0.5v output each.

Yes, panel (cell array).

The power available from your solar panel into a supercapacitor, will determine what is realistic for rx current drain, TX output power, etc. Determining your power budget will set limits on what you can resonably expect. I don't know of anyone who has used this power combo (solar/capacitor) although many of us have used LiPo batteries (lightweight) supported by small solar panels.

I was thinking this might be a good way since I could use a small panel. Many of these rigs use so little current on receive. One would only need a temporary supply of 5W power to cover the intermittent transmit. Here is a fellow powering a QRP radio with a tiny steam generator.

http://youtu.be/96ZRY0LiTg4

73 de KQ6UP

9696. Re: New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-14 13:34:49 UTC
From: Yannick
Topic: 9689 Message: 9696

Chris,

The price for the MTR was 100 USD for a 5W 2 bands rig, without the case but with any other necessary hardware in order to have a functional rig. That's topping your price range and you will need a paddle, an antenna and perhaps a antenna matching device. That's around 200 USD for a complete set ready to transmit.
I found it a real bargain giving the quality of the design, the components and the manual. You can find some stuff for a little cheaper, but without DDS, keyer and lesser overall quality.
For CW a VCXO could be a good compromise lowering the cost a lot. However, I found the design choice for the ATS/MTR series to be really good each time, covering various needs.

My opinion is that the MTR/ATS rigs are not beginner or tweaker rigs. They use a lot of integrated devices, you don't have room to work on the PCB and soldering SMD is not easy. For learning the basics of radio and trying to to build parts of a transceiver myself, I preferred my Bitx20 version 3 who is in its category also a great performer and was cheaper. i modified it with a DPLL VFO, an audio filter, and audio input/outputs for Digital modes (with a VOX).

73,
Yan.

--- In AT_Sprint@yahoogroups.com, Chris Maness <chris@...> wrote:
>
> On Mon, Aug 13, 2012 at 6:16 AM, n1rx <bruce.beford@...> wrote:
> > It would help to know how you define "low cost"... $50? $100? $200?
>
> ~$50-$100
>
> Also, multiband/single band?
>
> Prob 40 & 20m

9697. Re: [AT_Sprint] Re: New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-14 14:58:43 UTC
From: Christian AK4VV
Topic: 9689 Message: 9697

Has there been any indication whether there will be another MTR run?

73,
Christian
AK4VV

Sent from my iPad

On Aug 14, 2012, at 9:35 AM, Yannick <yannick.devos@...> wrote:

Chris,

The price for the MTR was 100 USD for a 5W 2 bands rig, without the case
but with any other necessary hardware in order to have a functional rig.
That's topping your price range and you will need a paddle, an antenna and
perhaps a antenna matching device. That's around 200 USD for a complete set
ready to transmit.
I found it a real bargain giving the quality of the design, the components
and the manual.
You can find some stuff for a little cheaper, but without DDS, keyer and
lesser overall quality.
For CW a VCXO could be a good compromise lowering the cost a lot. However,
I found the design choice for the ATS/MTR series to be really good each
time, covering various needs.

My opinion is that the MTR/ATS rigs are not beginner or tweaker rigs. They
use a lot of integrated devices, you don't have room to work on the PCB and
soldering SMD is not easy. For learning the basics of radio and trying to
to build parts of a transceiver myself, I preferred my Bitx20 version 3 who
is in its category also a great performer and was cheaper. i modified it
with a DPLL VFO, an audio filter, and audio input/outputs for Digital modes
(with a VOX).

73,
Yan.

--- In AT_Sprint@yahoogroups.com, Chris Maness <chris@...> wrote:
>
> On Mon, Aug 13, 2012 at 6:16 AM, n1rx <bruce.beford@...> wrote:
> > It would help to know how you define "low cost"... $50? $100? $200?
>
> ~$50-$100
>
> Also, multiband/single band?
>
> Prob 40 & 20m

9698. Re: New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-14 15:07:07 UTC
From: n1rx
Topic: 9689 Message: 9698

I believe Steve said possibly in the Fall, after the hiking season is over.
-Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, Christian AK4VV <ak4vv@...> wrote:
>
> Has there been any indication whether there will be another MTR run?
>
> 73,
> Christian
> AK4VV

9699. Re: [AT_Sprint] Re: New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-14 15:10:37 UTC
From: Lee Hiers
Topic: 9689 Message: 9699

On Tue, Aug 14, 2012 at 11:07 AM, n1rx <bruce.beford@...> wrote:

I believe Steve said possibly in the Fall, after the hiking season is over.
>
Gee, Fall sounds like when the hiking season starts! ;-)

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to
aa4ga.comand click on "QRP DXCC" for more info!

9700. Re: New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-14 16:05:52 UTC
From: n1rx
Topic: 9689 Message: 9700

That depends, to a great extent, on where you hike... 8-)
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, Lee Hiers <lee.hiers@...> wrote:
> >
> Gee, Fall sounds like when the hiking season starts! ;-)
>
> 73 de Lee
> --
> Lee Hiers, AA4GA

9701. Re: [AT_Sprint] Re: New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-14 17:04:35 UTC
From: Lee Hiers
Topic: 9689 Message: 9701

On Tue, Aug 14, 2012 at 12:05 PM, n1rx <bruce.beford@...> wrote:

That depends, to a great extent, on where you hike... 8-)
>
Yup, exactly! ;-)

I'm just glad it seems to have cooled off down here in the Southeast a bit
the past few days...hope it sticks - I won't count on it though...

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to
aa4ga.comand click on "QRP DXCC" for more info!

9702. LED indicator SWR Bridge

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-15 00:54:51 UTC
From: Yannick
Topic: 9702 Message: 9702

Hi,

Having finished my MTR I am now preparing other pieces of the "go kit".
I had a look in my junk box and I think I can easily build a SWR indicator.
However I mainly see two designs and I'd like to have advices or experiences from more skilled OM.

The most famous one seems the Tayloe bridge as offered in a kit by Doug Hendricks :
http://www.qrpkits.com/swrindicator.html

But I see another popular design which seems first published in Sprat, similar but saving a toroid :
http://www.m0jha.com/about114.html (with a meter instead of the LED)
http://www.aa5tb.com/coupler.gif (included in a tuner)

Last, a really simple device that needs some work for a 5W usage :
http://home.frognet.net/~mcfadden/wd8rif/text/swr_ind.txt

I know they were many discussions about this in the group already, however I don't understand Yahoo search engine results and what I read is mostly out of context information.

I like the AA5TB design and unless someone can explain me why Dan Tayloe design is better, I think i will go this way.

Thanks for your help.
73,
Yan - XV4Y.

9703. Skeeter logs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-15 01:14:25 UTC
From: Larry Makoski
Topic: 9703 Message: 9703

The first logs for the Skeeter Hunt held last Sunday have started to trickle in - 25 so far.

I know there were a lot of you out there operating. Don't be shy about sending your results in!

Full logs (adif and cabrillo files) are not necessary. The following is more than enough:

Name
Call
Skeeter number (if you had one)
Number of Skeeter QSOs
Number of Non- Skeeter QSOs.
Number of S/P/Cs that you worked on all bands. If you worked GA on 20 and 40 it ocunts twice, for example.
Your station class multipler:
X1 Home stations - commercial equipment
X2 Home stations - home brewed or kit built equipment
X3 Portable station - commercial equipment
X4 Portable station - home brewed or kit built equipment
And whether or not you're claiming the homebrewed key bonus of 1,000 points. Remember, the key has to have been built specifically for the Skeeter Hunt and you have to send me a picture.

All soapbox comments and phots will be posted.

Deadline for submissions is September 12th (30 days) but avoid the rush and send youe score early to w2lj@...

Thanks es 73!
Larry W2LJ

9704. Re: [AT_Sprint] LED indicator SWR Bridge

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-15 04:03:34 UTC
From: Yannick (XV4Y)
Topic: 9702 Message: 9704

Hi Terry,

That's what I though, thanks for confirming.
However with around 5W I will have plenty of power to lighten the LED.
Using cheap germanium diodes (I have plenty of those) will also help turn it on earlier.
This afternoon I will go shopping for a fishing pole and some 50 or 100 ohms, 2W resistors.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

Le 15 août 2012 à 08:09, WA0ITP a écrit :

> HI Yan,
>
> I the Tayloe indicator may be a little more sensitive due to the
> transformer stepping up the voltage to the LED. But either one will
> work just fine.
>
> btw, I use Google or Blekko exclusively.
>
> ----------
> I love this radio stuff !
> QRP=MAX(FUN/$)
> 72 WAØITP
> www.wa0itp.com
> www.4sqrp.com
> www.qrpspots.com
>
>
>
> ----- Original Message -----
> From: "Yannick" <yannick.devos@...>
> To: <AT_Sprint@yahoogroups.com>
> Sent: Tuesday, August 14, 2012 7:54 PM
> Subject: [AT_Sprint] LED indicator SWR Bridge
>
>
> | Hi,
> |
> | Having finished my MTR I am now preparing other pieces of the "go
> kit".

> | I had a look in my junk box and I think I can easily build a SWR
> indicator.
> | However I mainly see two designs and I'd like to have advices or
> experiences from more skilled OM.
> |
> | The most famous one seems the Tayloe bridge as offered in a kit by
> Doug Hendricks :
> | http://www.qrpkits.com/swrindicator.html
> |
> | But I see another popular design which seems first published in
> Sprat, similar but saving a toroid :
> | http://www.m0jha.com/about114.html (with a meter instead of the LED)
> | http://www.aa5tb.com/coupler.gif (included in a tuner)
> |
> | Last, a really simple device that needs some work for a 5W usage :
> | http://home.frognet.net/~mcfadden/wd8rif/text/swr_ind.txt
> |
> | I know they were many discussions about this in the group already,
> however I don't understand Yahoo search engine results and what I read
> is mostly out of context information.
> |
> | I like the AA5TB design and unless someone can explain me why Dan
> Tayloe design is better, I think i will go this way.
> |
> | Thanks for your help.
> | 73,
> | Yan - XV4Y.
> |
> |
> |
> | ------------------------------------
> |
> | Yahoo! Groups Links
> |
> |
> |
>

9705. Re: New to the Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-15 11:30:01 UTC
From: wa2ohf
Topic: 9689 Message: 9705

I have the PFR-3a with NASCAF filter and tunner built in for 210.00
if your intrested?
Arthur NS7E

--- In AT_Sprint@yahoogroups.com, "Yannick" <yannick.devos@...> wrote:
>
> Chris,
>
> The price for the MTR was 100 USD for a 5W 2 bands rig, without the case but with any other necessary hardware in order to have a functional rig. That's topping your price range and you will need a paddle, an antenna and perhaps a antenna matching device. That's around 200 USD for a complete set ready to transmit.
> I found it a real bargain giving the quality of the design, the components and the manual.
> You can find some stuff for a little cheaper, but without DDS, keyer and lesser overall quality.
> For CW a VCXO could be a good compromise lowering the cost a lot. However, I found the design choice for the ATS/MTR series to be really good each time, covering various needs.
>
> My opinion is that the MTR/ATS rigs are not beginner or tweaker rigs. They use a lot of integrated devices, you don't have room to work on the PCB and soldering SMD is not easy. For learning the basics of radio and trying to to build parts of a transceiver myself, I preferred my Bitx20 version 3 who is in its category also a great performer and was cheaper. i modified it with a DPLL VFO, an audio filter, and audio input/outputs for Digital modes (with a VOX).
>
> 73,
> Yan.
>
> --- In AT_Sprint@yahoogroups.com, Chris Maness <chris@> wrote:
> >
> > On Mon, Aug 13, 2012 at 6:16 AM, n1rx <bruce.beford@> wrote:
> > > It would help to know how you define "low cost"... $50? $100? $200?
> >
> > ~$50-$100
> >
> > Also, multiband/single band?
> >
> > Prob 40 & 20m
>

9706. ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-15 13:29:20 UTC
From: A.-L. und J. Allemann
Topic: 9706 Message: 9706

Hallo
For months, my ATS 4 worked nicely, but since a few weeks, I only can operate "straight key" and the function
switch only can be used for switching off (as indicated in the manual).
Is there a possibility to reset to "paddle
mode" or could it be a bad solder connection?
I would be glad to glad to get some advice.
Thanks in advance
HB9BAB /
Jürg

9707. Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-15 15:29:28 UTC
From: n1rx
Topic: 9706 Message: 9707

Possibly a short-circuit at the paddle jack wiring? Or, a damaged or faulty jack itself. This would force the ATS-4 into straight key mode on power up. You could try disconnecting the wire to the paddle jack, and see if the problem clears.
Good luck,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "A.-L. und J. Allemann" <HB9BAB@...> wrote:
>
> Hallo
> For months, my ATS 4 worked nicely, but since a few weeks, I only can operate "straight key" and the function
> switch only can be used for switching off (as indicated in the manual).
> Is there a possibility to reset to "paddle
> mode" or could it be a bad solder connection?
> I would be glad to glad to get some advice.
> Thanks in advance
> HB9BAB /
> JÃ¼rg
>

9708. Re: [AT_Sprint] Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-15 15:38:49 UTC
From: Randy Moore
Topic: 9706 Message: 9708

Is this related to the following issue identified by Steve a few months ago?

" If the rig is in Straight key mode and you do a setup save, it will
remain in SK mode forever. Well, not quite forever, as you can clear it if you
want. That is done by powering the rig up with the MENU button held closed. That
will clear the options flags and the start up freq registers. Then do another
set up save. Calibration data is not affected."

Randy

On Aug 15, 2012, at 10:29 AM, "n1rx" <bruce.beford@...> wrote:

> Possibly a short-circuit at the paddle jack wiring? Or, a damaged or faulty jack itself. This would force the ATS-4 into straight key mode on power up. You could try disconnecting the wire to the paddle jack, and see if the problem clears.
> Good luck,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, "A.-L. und J. Allemann" <HB9BAB@...> wrote:
> >
> > Hallo
> > For months, my ATS 4 worked nicely, but since a few weeks, I only can operate "straight key" and the function
> > switch only can be used for switching off (as indicated in the manual).
> > Is there a possibility to reset to "paddle
> > mode" or could it be a bad solder connection?
> > I would be glad to glad to get some advice.
> > Thanks in advance
> > HB9BAB /
> > JÃ¼rg
> >
>
>

9709. Re: [AT_Sprint] Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-15 16:47:33 UTC
From: Milton A Riutort
Topic: 9706 Message: 9709

Hi there:

This problem was observed on the MTR, not sure on ATS4. I mean, the problem of save the radio configuration with the straight key connected. I report this problem with mine to Steve, but really not sure the ATS4 has the same problem too. Anyway checking it again any short circuit on the key and/or key connection is not a bad idea.

Milton A Riutort
NP4KT

9710. Re: [AT_Sprint] Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-15 17:06:57 UTC
From: Randy Moore
Topic: 9706 Message: 9710

Sorry, this is an MTR issue, not ATS-4 as far as I know. I was thinking MTR when I replied - senior moment!

73,
Randy, KS4L

On Aug 15, 2012, at 10:38 AM, Randy Moore <wrmoore47@...> wrote:

> Is this related to the following issue identified by Steve a few months ago?
>
> " If the rig is in Straight key mode and you do a setup save, it will
> remain in SK mode forever. Well, not quite forever, as you can clear it if you
> want. That is done by powering the rig up with the MENU button held closed. That
> will clear the options flags and the start up freq registers. Then do another
> set up save. Calibration data is not affected."
>
> Randy
>
> On Aug 15, 2012, at 10:29 AM, "n1rx" <bruce.beford@...> wrote:
>
>> Possibly a short-circuit at the paddle jack wiring? Or, a damaged or faulty jack itself. This would force the ATS-4 into straight key mode on power up. You could try disconnecting the wire to the paddle jack, and see if the problem clears.
>> Good luck,
>> Bruce, N1RX
>>
>> --- In AT_Sprint@...m, "A.-L. und J. Allemann" <HB9BAB@...> wrote:
>> >
>> > Hallo
>> > For months, my ATS 4 worked nicely, but since a few weeks, I only can operate "straight key" and the function
>> > switch only can be used for switching off (as indicated in the manual).
>> > Is there a possibility to reset to "paddle
>> > mode" or could it be a bad solder connection?
>> > I would be glad to glad to get some advice.
>> > Thanks in advance
>> > HB9BAB /
>> > JÃ¼rg
>> >
>>
>>

9711. AW: [AT_Sprint] Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-16 14:04:49 UTC
From: A.-L. und J. Allemann
Topic: 9706 Message: 9711

Hallo Bruce,

mni tks for the hints!
I disconnected the wire to the paddle jack - no emprovement! no short cut in the paddle wire aswell!
So I' am still on the way to solve this problem. Any ohter suggestions?
thanks in advance.
Jürg,
HB9BAB

----Ursprüngliche Nachricht----
Von: bruce.beford@...
Datum: 15.08.2012 17:29
An:
<AT_Sprint@yahoogroups.com>
Betreff: [AT_Sprint] Re: ATS-4 problem

Possibly a short-circuit at the paddle jack wiring?
Or, a damaged or faulty jack itself. This would force the ATS-4 into straight key mode on power up. You could try
disconnecting the wire to the paddle jack, and see if the problem clears.
Good luck,
Bruce, N1RX

--- In
AT_Sprint@yahoogroups.com, "A.-L. und J. Allemann" <HB9BAB@...> wrote:
>
> Hallo
> For months, my ATS 4 worked nicely,
but since a few weeks, I only can operate "straight key" and the function
> switch only can be used for switching off
(as indicated in the manual).
> Is there a possibility to reset to "paddle
> mode" or could it be a bad solder
connection?
> I would be glad to glad to get some advice.
> Thanks in advance
> HB9BAB /
> JÃ¼rg
>

9712. Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-16 14:17:47 UTC
From: n1rx
Topic: 9706 Message: 9712

which version of the ATS-4 do you have? first run ATS-4 with the power button on the front, or ATS-4a or 4b? I am not sure if there is a "full reset" available, which may help, if this is a firmware, not harware bug.

I am away for the next several days at our local amateur telescope makers convention www.stellafane.org so I will only be on rarely during the weekend. Perhaps some other users have some thoughts on this problem...
Good luck!,
Bruce N1RX

--- In AT_Sprint@yahoogroups.com, "A.-L. und J. Allemann" <HB9BAB@...> wrote:
>
> Hallo Bruce,
>
> mni tks for the hints!
> I disconnected the wire to the paddle jack - no emprovement! no short cut in the
> paddle wire aswell!
> So I' am still on the way to solve this problem. Any ohter suggestions?
> thanks in advance.
> JÃ¼rg,
> HB9BAB
>
>
> ----UrsprÃ¼ngliche Nachricht----
> Von: bruce.beford@...
> Datum: 15.08.2012 17:29
> An:
> <AT_Sprint@yahoogroups.com>
> Betreff: [AT_Sprint] Re: ATS-4 problem
>
> Possibly a short-circuit at the paddle jack wiring?
> Or, a damaged or faulty jack itself. This would force the ATS-4 into straight key mode on power up. You could try
> disconnecting the wire to the paddle jack, and see if the problem clears.
> Good luck,
> Bruce, N1RX
>
> --- In
> AT_Sprint@yahoogroups.com, "A.-L. und J. Allemann" <HB9BAB@> wrote:
> >
> > Hallo
> > For months, my ATS 4 worked nicely,
> but since a few weeks, I only can operate "straight key" and the function
> > switch only can be used for switching off
> (as indicated in the manual).
> > Is there a possibility to reset to "paddle

> > mode" or could it be a bad solder
> connection?
> > I would be glad to glad to get some advice.
> > Thanks in advance
> > HB9BAB /
> > JÃ□Â¼rg
> >
>

9713. AW: [AT_Sprint] Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-16 14:30:38 UTC
From: A.-L. und J. Allemann
Topic: 9706 Message: 9713

it is the second version; with the on-button on top.

----Ursprüngliche Nachricht----
Von: bruce.beford@...

Datum: 16.08.2012 16:17
An: <AT_Sprint@yahoogroups.com>
Betreff: [AT_Sprint] Re: ATS-4 problem

which version of the
ATS-4 do you have? first run ATS-4 with the power button on the front, or ATS-4a or 4b? I am not sure if there is a
"full reset" available, which may help, if this is a firmware, not harware bug.

I am away for the next several days at
our local amateur telescope makers convention www.stellafane.org so I will only be on rarely during the weekend.
Perhaps some other users have some thoughts on this problem...
Good luck!,
Bruce N1RX

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this problem. Any ohter suggestions?
> thanks in advance.
> JÃ¼rg,
> HB9BAB
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>
> ----UrsprÃ¼ngliche Nachricht----
>
Von: bruce.beford@...
> Datum: 15.08.2012 17:29
> An:
> <AT_Sprint@yahoogroups.com>
> Betreff: [AT_Sprint] Re: ATS-4
problem
>

> Possibly a short-circuit at the paddle jack wiring?
> Or, a damaged or faulty jack itself. This would
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> Good luck,
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there a possibility to reset to "paddle
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glad to get some advice.
> > Thanks in advance
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> > JÃ□Â¼rg
> >
>

9714. RE: AW: [AT_Sprint] Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-16 16:52:16 UTC
From: Dale Putnam
Topic: 9706 Message: 9714

What is the response when you short both paddles, then turn on the radio?What is the response when turning on the radio with no paddle plugged in?After disconnecting the battery for a couple minutes, then reapplying power with a paddle plugged in, but not shorted, what does it do?Can you measure the paddle shorting, with no power applied to the radio, all the way up to the ic, both pins 13 and 14 of the MPS340?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: HB9BAB@...
Date: Thu, 16 Aug 2012 14:30:38 +0000
Subject: AW: [AT_Sprint] Re: ATS-4 problem

it is the second version; with the on-button on top.

----Ursprüngliche Nachricht----

Von: bruce.beford@myfairpoint.net

Datum: 16.08.2012 16:17

An: <AT_Sprint@yahoogroups.com>

Betreff: [AT_Sprint] Re: ATS-4 problem

which version of the

ATS-4 do you have? first run ATS-4 with the power button on the front, or ATS-4a or 4b? I am not sure if there is a

"full reset" available, which may help, if this is a firmware, not harware bug.

I am away for the next several days at

our local amateur telescope makers convention www.stellafane.org so I will only be on rarely during the weekend.

Perhaps some other users have some thoughts on this problem...

Good luck!,

Bruce N1RX

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com, "A.-L. und J. Allemann" <HB9BAB@...> wrote:

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to the paddle jack - no emprovement! no short cut in the

> paddle wire aswell!

> So I' am still on the way to solve

this problem. Any ohter suggestions?

> thanks in advance.

> JÃ¼rg,

> HB9BAB

>

>

> ----UrsprÃ¼ngliche Nachricht----

>

Von: bruce.beford@...

> Datum: 15.08.2012 17:29

> An:

> <AT_Sprint@yahoogroups.com>

> Betreff: [AT_Sprint] Re: ATS-4

problem

>

> Possibly a short-circuit at the paddle jack wiring?

> Or, a damaged or faulty jack itself. This would

force the ATS-4 into straight key mode on power up. You could try

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if the problem clears.

> Good luck,

> Bruce, N1RX

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> --- In

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> > Hallo

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> (as indicated in the manual).

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there a possibility to reset to "paddle

> > mode" or could it be a bad solder

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glad to get some advice.

> > Thanks in advance

> > HB9BAB /

> > JÃƒÂ¼rg

> >

>

9715. AW: RE: AW: [AT_Sprint] Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-16 21:05:31 UTC
From: A.-L. und J. Allemann
Topic: 9706 Message: 9715

Hallo Dale

tks fr replying.

What is the response when you short both paddles, then turn on the radio?=> Display shows QRG and voltage; permanent NF-sidetone and HF output.

What is the response when turning on the radio with no paddle
plugged in?=> Normal receive situation; no sidetone, no HF.

After disconnecting the battery for a couple minutes, then
reapplying power with a paddle plugged in, but not shorted, what does it do?=> same as above.

Can you measure the
paddle shorting, with no power applied to the radio, all the way up to the ic, both pins 13 and 14 of the MPS340? => I
mesured with my ohm-meter: no shorting in jack; up to pin 13 and 14 no shorting either.

Could it be a bad soldering
anywhere?
Meanwhile thanks for helping!

73 de HB9BAB / Jürg

----Ursprüngliche Nachricht----
Von: daleputnam@hotmail.
com
Datum: 16.08.2012 18:52
An: "AT Sprint"<at_sprint@yahoogroups.com>
Betreff: RE: AW: [AT_Sprint] Re: ATS-4 problem

What is the response when you short both paddles, then turn on the radio?What is the response when turning on the radio
with no paddle plugged in?After disconnecting the battery for a couple minutes, then reapplying power with a paddle
plugged in, but not shorted, what does it do?Can you measure the paddle shorting, with no power applied to the radio,
all the way up to the ic, both pins 13 and 14 of the MPS340?

--... ...--
Dale - WC7S in Wy
To:
AT_Sprint@yahoogroups.com
From: HB9BAB@...
Date: Thu, 16 Aug 2012 14:30:38 +0000
Subject: AW: [AT_Sprint] Re:

ATS-4 problem

it is the second version; with the on-button on top.

----Ursprüngliche Nachricht----

Von: bruce.beford@...

Datum: 16.08.2012 16:17

An:
<AT_Sprint@yahoogroups.com>

Betreff: [AT_Sprint] Re: ATS-4 problem

which version of the

ATS-4 do you have? first
run ATS-4 with the power button on the front, or ATS-4a or 4b? I am not sure if there is a

"full reset" available,
which may help, if this is a firmware, not harware bug.

I am away for the next several days at

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telescope makers convention www.stellafane.org so I will only be on rarely during the
weekend.

Perhaps some other
users have some thoughts on this problem...

Good luck!,

Bruce N1RX

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to the
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problem. Any ohter suggestions?

> thanks in advance.

> JÃ¼rg,

> HB9BAB

>

>

> ----UrsprÃ¼ngliche Nachricht----

>

Von: bruce.beford@...

> Datum: 15.08.2012 17:29

> An:

> <AT_Sprint@yahoogroups.com>

> Betreff: [AT_Sprint] Re:
ATS-4

problem

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> Possibly a short-circuit at the paddle jack wiring?

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This would

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glad to get some advice.

> > Thanks in advance

> > HB9BAB /

> > JÃƒÂ¼rg

> >

>

9716. RE: AW: RE: AW: [AT_Sprint] Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-16 21:22:36 UTC
From: Dale Putnam
Topic: 9706 Message: 9716

You're very welcome, Looking at not seeing the short from either paddle (dit or dah) to ground, from the jack on toward the ic... is a problem.. let me re-ask, just to make sure,I'm asking it correctly. With no power to the radio, and the paddle plugged in, Can you measure the paddle shorting to ground either the dit or the dah, when the paddle is activated ?IF that is measureable, at the jack, can you trace that action to the IC, by putting your meter probe, closer and closer to the ic, while activating the paddle.. ?Trace that way on both the dit and the dah side. What do you find?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: HB9BAB@bluewin.ch
Date: Thu, 16 Aug 2012 21:05:31 +0000
Subject: AW: RE: AW: [AT_Sprint] Re: ATS-4 problem

Hallo Dale

tks fr replying.

What is the response when you short both paddles, then turn on the radio?=> Display shows

QRG and voltage; permanent NF-sidetone and HF output.

What is the response when turning on the radio with no paddle

plugged in?=> Normal receive situation; no sidetone, no HF.

After disconnecting the battery for a couple minutes, then

reapplying power with a paddle plugged in, but not shorted, what does it do?=> same as above.

Can you measure the

paddle shorting, with no power applied to the radio, all the way up to the ic, both pins 13 and 14 of the MPS340? => I

mesured with my ohm-meter: no shorting in jack; up to pin 13 and 14 no shorting either.

Could it be a bad soldering

anywhere?

Meanwhile thanks for helping!

73 de HB9BAB / Jürg

----Ursprüngliche Nachricht----

Von: daleputnam@hotmail.

com

Datum: 16.08.2012 18:52

An: "AT Sprint"<at_sprint@yahoogroups.com>

Betreff: RE: AW: [AT_Sprint] Re: ATS-4 problem

What is the response when you short both paddles, then turn on the radio?What is the response when turning on the radio

with no paddle plugged in?After disconnecting the battery for a couple minutes, then reapplying power with a paddle

plugged in, but not shorted, what does it do?Can you measure the paddle shorting, with no power applied to the radio,

all the way up to the ic, both pins 13 and 14 of the MPS340?

--... ...--

Dale - WC7S in Wy

To:

AT_Sprint@yahoogroups.com

From: HB9BAB@bluewin.ch

Date: Thu, 16 Aug 2012 14:30:38 +0000

Subject: AW: [AT_Sprint] Re:

ATS-4 problem

it is the second version; with the on-button on top.

----Ursprüngliche Nachricht----

Von: bruce.beford@...

Datum: 16.08.2012 16:17

An:

<AT_Sprint@yahoogroups.com>

Betreff: [AT_Sprint] Re: ATS-4 problem

which version of the

ATS-4 do you have? first

run ATS-4 with the power button on the front, or ATS-4a or 4b? I am not sure if there is a

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which may help, if this is a firmware, not harware bug.

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Perhaps some other

users have some thoughts on this problem...

Good luck!,

Bruce N1RX

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this

problem. Any ohter suggestions?

> thanks in advance.

> JÃ¼rg,

> HB9BAB

>

>

> ----UrsprÃ¼ngliche Nachricht----

>

Von: bruce.beford@...

> Datum: 15.08.2012 17:29

> An:

> <AT_Sprint@yahoogroups.com>

> Betreff: [AT_Sprint] Re:

ATS-4

problem

>

> Possibly a short-circuit at the paddle jack wiring?

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This would

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> > I would be glad to

glad to get some advice.

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> > HB9BAB /

> > JÃƒÂ¼rg

> >

>

9717. FS: QBSA (Built)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-17 07:53:33 UTC
From: Jonathan Haynes
Topic: 9717 Message: 9717

I have a fully built QBSA in case with various connectors and labels for sale. I built it, but I never use it, so I might as well move 'er along. Email me off-list for photos and details.
Jonathan KC7FYS

9718. ATS 3 and ATS3A (Built) FS

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-17 08:29:32 UTC
From: Jonathan Haynes
Topic: 9718 Message: 9718

I have an AT Sprint III and an ATS 3A, both built, for sale. Please email me off-list for details. Thanks, Jonathan KC7FYS

9719. Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-17 08:50:19 UTC
From: A.-L. und J. Allemann
Topic: 9706 Message: 9719

Gm Dale

I did measure the paddle shorting to ground either the dit or the dah, when the paddle is activated (but rig
not powered on) form the jack back to the IC (pins) and I got always a perfect shortening.

73 s Jürg, HB9BAB

Ursprüngliche Nachricht----
Von: daleputnam@...
Datum: 16.08.2012 23:22
An: "AT Sprint"<at_sprint@yahoogroups.
com>
Betreff: RE: AW: RE: AW: [AT_Sprint] Re: ATS-4 problem

You're very welcome, Looking at not seeing the short from
either paddle (dit or dah) to ground, from the jack on toward the ic... is a problem.. let me re-ask, just to make sure,
I'm asking it correctly. With no power to the radio, and the paddle plugged in, Can you measure the paddle shorting
to ground either the dit or the dah, when the paddle is activated ?IF that is measureable, at the jack, can you trace
that action to the IC, by putting your meter probe, closer and closer to the ic, while activating the paddle.. ?Trace
that way on both the dit and the dah side. What do you find?

--... ...--
Dale - WC7S in Wy
To:
AT_Sprint@yahoogroups.com
From: HB9BAB@...
Date: Thu, 16 Aug 2012 21:05:31 +0000
Subject: AW: RE: AW:
[AT_Sprint] Re: ATS-4 problem

Hallo Dale

tks fr replying.

What
is the response when you short both paddles, then turn on the radio?=> Display shows

QRG and voltage; permanent NF-
sidetone and HF output.

What is the response when turning on the radio with no paddle

plugged in?=> Normal receive
situation; no sidetone, no HF.

After disconnecting the battery for a couple minutes, then

reapplying power with a
paddle plugged in, but not shorted, what does it do?=> same as above.

Can you measure the

paddle shorting, with no
power applied to the radio, all the way up to the ic, both pins 13 and 14 of the MPS340? =>
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Could it be a bad soldering

anywhere?

Meanwhile thanks for helping!

73 de HB9BAB / Jürg

----Ursprüngliche Nachricht----

Von: daleputnam@hotmail.

com

Datum: 16.08.2012 18:52

An: "AT Sprint"<at_sprint@yahoogroups.com>

Betreff: RE: AW: [AT_Sprint] Re: ATS-4 problem

What is the response when you short both paddles, then turn on the radio?What is the
response when turning on the
radio

with no paddle plugged in?After disconnecting the battery for a couple minutes, then
reapplying power with a
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Dale - WC7S in Wy

To:

AT_Sprint@yahoogroups.com

From: HB9BAB@bluewin.ch

Date: Thu, 16 Aug 2012 14:30:38 +0000

Subject: AW: [AT_Sprint]
Re:

ATS-4 problem

it is the second version; with the on-button on top.

----Ursprüngliche Nachricht----

Von:
bruce.beford@myfairpoint.net

Datum: 16.08.2012 16:17

An:

<AT_Sprint@yahoogroups.com>

Betreff: [AT_Sprint]
Re: ATS-4 problem

which version of the

ATS-4 do you have? first

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>

> ----UrsprÃ¼ngliche Nachricht----

>

Von: bruce.beford@...

> Datum: 15.08.2012 17:29

> An:

>
<AT_Sprint@yahoogroups.com>

> Betreff: [AT_Sprint] Re:

ATS-4

problem

>

> Possibly a short-circuit at
the paddle jack wiring?

> Or, a damaged or faulty jack itself.

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if the problem clears.

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> Bruce, N1RX

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> AT_Sprint@yahoogroups.com, "A.-L.

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in the manual).

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connection?

> > I would be glad to

glad to get some advice.

> > Thanks in advance

> > HB9BAB /

> >
JÃƒÂ¼rg

> >

>

9720. RE: [AT_Sprint] Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-17 13:11:52 UTC
From: Dale Putnam
Topic: 9706 Message: 9720

GM Jurg, Since the short at the ic on each lead goes away when the paddle is not activated, with power off the radio. That then leads me to examine very closely the soldering around the ic.There is a possibility that the ic would respond to a reprogramming. However, soldering is certainly more likely. Particularly around U7 and U9. Many times a reflow on the ic legs of the solder, will cure issues.Good luck,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: HB9BAB@...
Date: Fri, 17 Aug 2012 08:50:19 +0000
Subject: [AT_Sprint] Re: ATS-4 problem

Gm Dale

I did measure the paddle shorting to ground either the dit or the dah, when the paddle is activated (but rig

not powered on) form the jack back to the IC (pins) and I got always a perfect shortening.

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Ursprüngliche Nachricht----

Von: daleputnam@...

Datum: 16.08.2012 23:22

An: "AT Sprint"<at_sprint@yahoogroups.

com>

Betreff: RE: AW: RE: AW: [AT_Sprint] Re: ATS-4 problem

You're very welcome, Looking at not seeing the short from

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I'm asking it correctly. With no power to the radio, and the paddle plugged in, Can you measure the paddle shorting

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that action to the IC, by putting your meter probe, closer and closer to the ic, while activating the paddle.. ?Trace

that way on both the dit and the dah side. What do you find?

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Dale - WC7S in Wy

To:

AT_Sprint@yahoogroups.com

From: HB9BAB@...

Date: Thu, 16 Aug 2012 21:05:31 +0000

Subject: AW: RE: AW:

[AT_Sprint] Re: ATS-4 problem

Hallo Dale

tks fr replying.

What

is the response when you short both paddles, then turn on the radio?=> Display shows

QRG and voltage; permanent NF-

sidetone and HF output.

What is the response when turning on the radio with no paddle

plugged in?=> Normal receive

situation; no sidetone, no HF.

After disconnecting the battery for a couple minutes, then

reapplying power with a

paddle plugged in, but not shorted, what does it do?=> same as above.

Can you measure the

paddle shorting, with no

power applied to the radio, all the way up to the ic, both pins 13 and 14 of the MPS340? => I

mesured with my ohm-

meter: no shorting in jack; up to pin 13 and 14 no shorting either.

Could it be a bad soldering

anywhere?

Meanwhile thanks for helping!

73 de HB9BAB / Jürg

----Ursprüngliche Nachricht----

Von: daleputnam@hotmail.

com

Datum: 16.08.2012 18:52

An: "AT Sprint"<at_sprint@yahoogroups.com>

Betreff: RE: AW: [AT_Sprint] Re: ATS-4 problem

What is the response when you short both paddles, then turn on the radio?What is the response when turning on the

radio

with no paddle plugged in?After disconnecting the battery for a couple minutes, then reapplying power with a

paddle

plugged in, but not shorted, what does it do?Can you measure the paddle shorting, with no power applied to the

radio,

all the way up to the ic, both pins 13 and 14 of the MPS340?

--... ...--

Dale - WC7S in Wy

To:

AT_Sprint@yahoogroups.com

From: HB9BAB@...

Date: Thu, 16 Aug 2012 14:30:38 +0000

Subject: AW: [AT_Sprint]

Re:

ATS-4 problem

it is the second version; with the on-button on top.

----Ursprüngliche Nachricht----

Von:

bruce.beford@...

Datum: 16.08.2012 16:17

An:

<AT_Sprint@yahoogroups.com>

Betreff: [AT_Sprint]

Re: ATS-4 problem

which version of the

ATS-4 do you have? first

run ATS-4 with the power button on the front,

or ATS-4a or 4b? I am not sure if there is a

"full reset" available,

which may help, if this is a firmware, not

harware bug.

I am away for the next several days at

our local amateur

telescope makers convention www.stellafane.org so I will only be on rarely during the weekend.

Perhaps some other

users have some thoughts on this problem...

Good luck!,

Bruce N1RX

--- In AT_Sprint@yahoogroups.

com, "A.-

L. und

J. Allemann" <HB9BAB@...> wrote:

>

> Hallo Bruce,

>

> mni tks for the hints!

> I disconnected

the wire

to the

paddle jack - no emprovement! no short cut in the

> paddle wire aswell!

> So I' am still

on the way to solve

this

problem. Any ohter suggestions?

> thanks in advance.

> JÃ¼rg,

> HB9BAB

>

>

> ----UrsprÃ¼ngliche Nachricht----

>

Von: bruce.beford@...

> Datum: 15.08.2012 17:29

> An:

>

<AT_Sprint@yahoogroups.com>

> Betreff: [AT_Sprint] Re:

ATS-4

problem

>

> Possibly a short-circuit at

the paddle jack wiring?

> Or, a damaged or faulty jack itself.

This would

force the ATS-4 into straight key

mode on power up. You could try

> disconnecting the wire to the paddle

jack, and see

if the problem clears.

> Good luck,

> Bruce, N1RX

>

> --- In

> AT_Sprint@yahoogroups.com, "A.-L.

und J. Allemann"

<HB9BAB@> wrote:

> >

> > Hallo

> > For months, my ATS 4 worked nicely,

> but since a few weeks,

I only

can operate

"straight key" and the function

> > switch only can be used for switching off

> (as indicated

in the manual).

> > Is

there a possibility to reset to "paddle

> > mode" or could it be a bad solder

>

connection?

> > I would be glad to

glad to get some advice.

> > Thanks in advance

> > HB9BAB /

> >

JÃƒÂ¼rg

> >

>

9721. FS: HP iPAQ h4100 w/ PocketDigi

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-17 19:45:45 UTC
From: John Shadle
Topic: 9721 Message: 9721

Hi all,
I have 2 HP iPAQ h4100 PocketPC models for sale. They both have PocketDigi installed on them, as well as the Windows software that comes with these devices (Word, Excel, etc.).

Both are in great condition (no scratches on the units, etc.) with batteries that hold a charge.

Each also has a soft case for the iPAQs and a docking station with USB cable.

I'm asking $55 shipped for each, or $105 if you want both (including shipping).

Please reply off list.

Thanks!
-john W4PAH
Madison, WI

9722. ATS4b 20 M problem: 65 MHZ

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-17 23:12:52 UTC
From: db66jy
Topic: 9722 Message: 9722

Hi
I posted about this before but still have not been able to find the problem. During the initial tests the rig worked correctly on all bands but jumped to 65 MHZ on 20 meters several times and then went back to 14 mHz. The problem then returned and now moving s6 to the 20 m position results in the display showing 65.032.861 MHZ. with a loud tone and the S meter full scale. I can vary the frequency but if I power off and on again it goes back to that same frequency

I have tried resoldering U10, U7, looked all over for shorts or bad solder connections (which is still most likely the problem?). Another ham suggested desoldering S6 to eliminate possible short from too much solder above the board, but that also did not help. The rig seems to function perfectly on all other bands.

Does anyone have any other suggestions for locating the problem?

Thanks in advance for any help or suggestions!

Dan
AD6JY

9723. Possible qQRP Power Source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-18 03:19:46 UTC
From: Chris Maness
Topic: 9723 Message: 9723

http://youtu.be/X-W32_mcNa0

Homemade sterling engine generator.

Chris

9724. Re: FS: QBSA (Built)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-18 12:46:21 UTC
From: Jonathan Haynes
Topic: 9717 Message: 9724

This item has been spoken for. I still have the AT Sprint III and the ATS 3A available.
Jonathan KC7FYS

--- In AT_Sprint@yahoogroups.com, "Jonathan Haynes" <kc7fys@...> wrote:
>
> I have a fully built QBSA in case with various connectors and labels for sale. I built it, but I never use it, so I might as well move 'er along. Email me off-list for photos and details.
> Jonathan KC7FYS
>

9725. Re: [AT_Sprint] Re: FS: QBSA (Built)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-18 12:56:24 UTC
From: Johnny Matlock
Topic: 9717 Message: 9725

tnx 73

On Sat, Aug 18, 2012 at 7:46 AM, Jonathan Haynes <kc7fys@...> wrote:

> **
>
>
> This item has been spoken for. I still have the AT Sprint III and the ATS
> 3A available.
> Jonathan KC7FYS
>
>
> --- In AT_Sprint@yahoogroups.com, "Jonathan Haynes" <kc7fys@...> wrote:
> >
> > I have a fully built QBSA in case with various connectors and labels for
> sale. I built it, but I never use it, so I might as well move 'er along.
> Email me off-list for photos and details.
> > Jonathan KC7FYS
> >
>
>
>

9726. RE: [AT_Sprint] ATS4b 20 M problem: 65 MHZ

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-18 14:57:34 UTC
From: Dale Putnam
Topic: 9722 Message: 9726

Hi Dan, A reflow after checking r39 for correct value, of the resistor, maybe in order. Then a check of the voltage on the pin 9 side of r43, when s6 is switched from band to band.This may provide a bit of guidance to where to look next. Good luck,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: dancbirnbaum@...
Date: Fri, 17 Aug 2012 23:12:52 +0000
Subject: [AT_Sprint] ATS4b 20 M problem: 65 MHZ

Hi

I posted about this before but still have not been able to find the problem. During the initial tests the rig worked correctly on all bands but jumped to 65 MHZ on 20 meters several times and then went back to 14 mHz. The problem then returned and now moving s6 to the 20 m position results in the display showing 65.032.861 MHZ. with a loud tone and the S meter full scale. I can vary the frequency but if I power off and on again it goes back to that same frequency

I have tried resoldering U10, U7, looked all over for shorts or bad solder connections (which is still most likely the problem?). Another ham suggested desoldering S6 to eliminate possible short from too much solder above the board, but that also did not help. The rig seems to function perfectly on all other bands.

Does anyone have any other suggestions for locating the problem?

Thanks in advance for any help or suggestions!

Dan

AD6JY

9727. Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-18 15:44:58 UTC
From: A.-L. und J. Allemann
Topic: 9706 Message: 9727

Hallo Dale
I resoldered U7 and U9 but the problem still stays on. Next, I will have a closer look with my binocular,
hoping the problem will get solved!
Thanks for helping; meanwhile I am on the air with my ATS-3b.
73s Jürg / HB9BAB

----Ursprüngliche Nachricht----
Von: daleputnam@hotmail.com
Datum: 17.08.2012 15:11
An: "AT Sprint"
<at_sprint@yahoogroups.com>
Betreff: RE: [AT_Sprint] Re: ATS-4 problem

GM Jurg, Since the short at the ic on each
lead goes away when the paddle is not activated, with power off the radio. That then leads me to examine very closely
the soldering around the ic.There is a possibility that the ic would respond to a reprogramming. However, soldering is
certainly more likely. Particularly around U7 and U9. Many times a reflow on the ic legs of the solder, will cure
issues.Good luck,

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Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: HB9BAB@...
Date: Fri, 17
Aug 2012 08:50:19 +0000
Subject: [AT_Sprint] Re: ATS-4 problem

Gm
Dale

I did measure the paddle shorting to ground either the dit or the dah, when the paddle is activated (but rig

not powered on) form the jack back to the IC (pins) and I got always a perfect shortening.

73 s Jürg, HB9BAB

Ursprüngliche Nachricht----

Von: daleputnam@...

Datum: 16.08.2012 23:22

An: "AT Sprint"
<at_sprint@yahoogroups.

com>

Betreff: RE: AW: RE: AW: [AT_Sprint] Re: ATS-4 problem

You're very welcome, Looking
at not seeing the short from

either paddle (dit or dah) to ground, from the jack on toward the ic... is a problem..
let me re-ask, just to make sure,

I'm asking it correctly. With no power to the radio, and the paddle plugged in,
Can you measure the paddle shorting

to ground either the dit or the dah, when the paddle is activated ?IF that is
measureable, at the jack, can you trace

that action to the IC, by putting your meter probe, closer and closer to the
ic, while activating the paddle.. ?Trace

that way on both the dit and the dah side. What do you find?

--... ...
--

Dale - WC7S in Wy

To:

AT_Sprint@...m

From: HB9BAB@...

Date: Thu, 16 Aug 2012 21:05:31 +0000

Subject: AW: RE: AW:

[AT_Sprint] Re: ATS-4 problem

Hallo Dale

tks fr replying.

What

is the response when
you short both paddles, then turn on the radio?=> Display shows

QRG and voltage; permanent NF-

sidetone and HF
output.

What is the response when turning on the radio with no paddle

plugged in?=> Normal receive

situation;
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After disconnecting the battery for a couple minutes, then

reapplying power with a

paddle
plugged in, but not shorted, what does it do?=> same as above.

Can you measure the

paddle shorting, with no

power applied to the radio, all the way up to the ic, both pins 13 and 14 of the MPS340? =>
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mesured with my ohm-

meter: no shorting in jack; up to pin 13 and 14 no shorting either.

Could it be a bad soldering

anywhere?

Meanwhile thanks for helping!

73 de HB9BAB / Jürg

----Ursprüngliche Nachricht----

Von: daleputnam@hotmail.

com

Datum: 16.08.2012 18:52

An: "AT Sprint"<at_sprint@yahoogroups.com>

Betreff: RE: AW: [AT_Sprint] Re: ATS-4
problem

What is the response when you short both paddles, then turn on the radio?What is the
response when turning
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Dale - WC7S in Wy

To:

AT_Sprint@yahoogroups.com

From: HB9BAB@...

Date: Thu, 16 Aug 2012 14:30:38
+0000

Subject: AW: [AT_Sprint]

Re:

ATS-4 problem

it is the second version; with the on-button on top.

----Ursprüngliche Nachricht----

Von:

bruce.beford@...

Datum: 16.08.2012 16:17

An:

<AT_Sprint@yahoogroups.com>

Betreff: [AT_Sprint]

Re: ATS-4 problem

which version of the

ATS-4 do you have?
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run ATS-4 with the power button on the front,

or ATS-4a or 4b? I am not sure if there is a

"full reset"
available,

which may help, if this is a firmware, not

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I am away for the next several days at

our local amateur

telescope makers convention www.stellafane.org so I will only be on rarely during the weekend.

Perhaps some other

users have some thoughts on this problem...

Good luck!,

Bruce N1RX

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com, "A.
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L. und

J. Allemann" <HB9BAB@...> wrote:

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> mni tks for the hints!

> I
disconnected

the wire

to the

paddle jack - no emprovement! no short cut in the

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> So I' am still

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problem. Any ohter suggestions?

> thanks in advance.

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JÃ¼rg,

> HB9BAB

>

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> ----UrsprÃ¼ngliche Nachricht----

>

Von: bruce.beford@...

> Datum:
15.08.2012 17:29

> An:

>

<AT_Sprint@yahoogroups.com>

> Betreff: [AT_Sprint] Re:

ATS-4

problem

>

> Possibly a short-circuit at

the paddle jack wiring?

> Or, a damaged or faulty jack itself.

This would

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if the problem clears.

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> AT_Sprint@yahoogroups.
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> but since a few weeks,

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> > Is

there a possibility to reset to "paddle

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connection?

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glad to get some advice.

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Thanks in advance

> > HB9BAB /

> >

JÃƒÂ¼rg

> >

>

9728. RE: [AT_Sprint] Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-18 16:31:38 UTC
From: Dale Putnam
Topic: 9706 Message: 9728

Hello Jurg, Is it possible to reprogram the ic? I don't know how it would have gotten confused, but that could cure the situation.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: HB9BAB@...
Date: Sat, 18 Aug 2012 15:44:58 +0000
Subject: [AT_Sprint] Re: ATS-4 problem

Hallo Dale

I resoldered U7 and U9 but the problem still stays on. Next, I will have a closer look with my binocular,

hoping the problem will get solved!

Thanks for helping; meanwhile I am on the air with my ATS-3b.

73s Jürg / HB9BAB

----Ursprüngliche Nachricht----

Von: daleputnam@...

Datum: 17.08.2012 15:11

An: "AT Sprint"

<at_sprint@yahoogroups.com>

Betreff: RE: [AT_Sprint] Re: ATS-4 problem

GM Jurg, Since the short at the ic on each

lead goes away when the paddle is not activated, with power off the radio. That then leads me to examine very closely

the soldering around the ic.There is a possibility that the ic would respond to a reprogramming. However, soldering is

certainly more likely. Particularly around U7 and U9. Many times a reflow on the ic legs of the solder, will cure

issues.Good luck,

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Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com

From: HB9BAB@...

Date: Fri, 17

Aug 2012 08:50:19 +0000

Subject: [AT_Sprint] Re: ATS-4 problem

Gm

Dale

I did measure the paddle shorting to ground either the dit or the dah, when the paddle is activated (but rig

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73 s Jürg, HB9BAB

Ursprüngliche Nachricht----

Von: daleputnam@...

Datum: 16.08.2012 23:22

An: "AT Sprint"

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Betreff: RE: AW: RE: AW: [AT_Sprint] Re: ATS-4 problem

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at not seeing the short from

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I'm asking it correctly. With no power to the radio, and the paddle plugged in,

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Von: bruce.beford@...

> Datum:

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> An:

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ATS-4

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glad to get some advice.

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Thanks in advance

> > HB9BAB /

> >

JÃƒÂ¼rg

> >

>

9729. Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-18 20:38:03 UTC
From: A.-L. und J. Allemann
Topic: 9706 Message: 9729

HI Dale

Next week, I will try to resolder the rest of the circuit; hoping that will help!
If not, I will ask Steve
(when he will be back from his walk) to reprogram the IC, because I'm not equipted to do this job.
Meanwhile thanks
again for your help and advices!

73's HB9BAB / Jürg

----Ursprüngliche Nachricht----
Von: daleputnam@...

Datum: 18.08.2012 18:31
An: "AT Sprint"<at_sprint@yahoogroups.com>
Betreff: RE: [AT_Sprint] Re: ATS-4 problem

Hello
Jurg, Is it possible to reprogram the ic? I don't know how it would have gotten confused, but that could cure the
situation.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: HB9BAB@...
Date: Sat, 18 Aug
2012 15:44:58 +0000
Subject: [AT_Sprint] Re: ATS-4 problem

Hallo
Dale

I resoldered U7 and U9 but the problem still stays on. Next, I will have a closer look with my binocular,

hoping the problem will get solved!

Thanks for helping; meanwhile I am on the air with my ATS-3b.

73s Jürg / HB9BAB

----Ursprüngliche Nachricht----

Von: daleputnam@...

Datum: 17.08.2012 15:11

An: "AT Sprint"

<at_sprint@yahoogroups.com>

Betreff: RE: [AT_Sprint] Re: ATS-4 problem

GM Jurg, Since the short at the ic on each

lead goes away when the paddle is not activated, with power off the radio. That then leads me to examine very closely

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Subject: [AT_Sprint] Re: ATS-4 problem

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Nachricht----

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Betreff: RE: AW: RE: AW: [AT_Sprint] Re: ATS-4 problem

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I'm asking it correctly. With no power to the radio, and the paddle plugged in,

Can you
measure the paddle shorting

to ground either the dit or the dah, when the paddle is activated ?IF that is

measureable, at the jack, can you trace

that action to the IC, by putting your meter probe, closer and closer to
the

ic, while activating the paddle.. ?Trace

that way on both the dit and the dah side. What do you find?

--
... ...

--

Dale - WC7S in Wy

To:

AT_Sprint@yahoogroups.com

From: HB9BAB@...

Date: Thu, 16 Aug
2012 21:05:31 +0000

Subject: AW: RE: AW:

[AT_Sprint] Re: ATS-4 problem

Hallo Dale

tks fr replying.

What

is the response when

you short both paddles, then turn on the radio?=> Display shows

QRG and voltage;
permanent NF-

sidetone and HF

output.

What is the response when turning on the radio with no paddle

plugged
in?=> Normal receive

situation;

no sidetone, no HF.

After disconnecting the battery for a couple minutes,
then

reapplying power with a

paddle

plugged in, but not shorted, what does it do?=> same as above.

Can you
measure the

paddle shorting, with no

power applied to the radio, all the way up to the ic, both pins 13 and 14
of the MPS340? => I

mesured with my ohm-

meter: no shorting in jack; up to pin 13 and 14 no shorting either.

Could it be a bad soldering

anywhere?

Meanwhile thanks for helping!

73 de HB9BAB / Jürg

----Ursprüngliche
Nachricht----

Von: daleputnam@hotmail.

com

Datum: 16.08.2012 18:52

An: "AT Sprint"<at_sprint@yahoogroups.
com>

Betreff: RE: AW: [AT_Sprint] Re: ATS-4

problem

What is the response when you short both paddles, then turn
on the radio?What is the response when turning

on the

radio

with no paddle plugged in?After disconnecting the
battery for a couple minutes, then reapplying

power with a

paddle

plugged in, but not shorted, what does it
do?Can you measure the paddle shorting, with no

power applied to the

radio,

all the way up to the ic, both
pins 13 and 14 of the MPS340?

--... ...--

Dale - WC7S in Wy

To:

AT_Sprint@yahoogroups.com

From:
HB9BAB@...

Date: Thu, 16 Aug 2012 14:30:38

+0000

Subject: AW: [AT_Sprint]

Re:

ATS-4 problem

it is the second version; with the on-button on top.

----Ursprüngliche Nachricht----

Von:

bruce.
beford@...

Datum: 16.08.2012 16:17

An:

<AT_Sprint@yahoogroups.com>

Betreff: [AT_Sprint]

Re: ATS-4 problem

which version of the

ATS-4 do you have?

first

run ATS-4 with the power button on the
front,

or ATS-4a or 4b? I am not sure if there is a

"full reset"

available,

which may help, if this is a
firmware, not

harware bug.

I am away for the next several days at

our local amateur

telescope makers
convention www.stellafane.org so I will only be on rarely during the weekend.

Perhaps some other

users have
some thoughts on this problem...

Good luck!,

Bruce N1RX

--- In AT_Sprint@yahoogroups.

com, "A.

-

L.
und

J. Allemann" <HB9BAB@...> wrote:

>

> Hallo Bruce,

>

> mni tks for the hints!

> I

disconnected

the wire

to the

paddle jack - no emprovement! no short cut in the

> paddle wire aswell!

> So I' am still

on the way to solve

this

problem. Any ohter suggestions?

> thanks in advance.

>

JÃ¼rg,

> HB9BAB

>

>

> ----UrsprÃ¼ngliche Nachricht----

>

Von: bruce.beford@...

> Datum:

15.08.2012 17:29

> An:

>

<AT_Sprint@yahoogroups.com>

> Betreff: [AT_Sprint] Re:

ATS-4

problem

>

> Possibly a short-circuit at

the paddle jack wiring?

> Or, a damaged or faulty jack itself.

This
would

force the ATS-4 into straight key

mode on power up. You could try

> disconnecting the wire to the
paddle

jack, and see

if the problem clears.

> Good luck,

> Bruce, N1RX

>

> --- In

>
AT_Sprint@yahoogroups.

com, "A.-L.

und J. Allemann"

<HB9BAB@> wrote:

> >

> > Hallo

> > For months, my
ATS 4 worked nicely,

> but since a few weeks,

I only

can operate

"straight key" and the function

>
> switch only can be used

for switching off

> (as indicated

in the manual).

> > Is

there a possibility
to reset to "paddle

> >

mode" or could it be a bad solder

>

connection?

> > I would be glad to

glad to get some advice.

> >

Thanks in advance

> > HB9BAB /

> >

JÃƒÂ¼rg

> >

>

9730. RFTB Sunday night

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-18 21:25:52 UTC
From: Larry Makoski
Topic: 5751 Message: 9730

Wow! Summer is flying by - only another month left. This Sunday is the 3rd one of this month, so you know what that means! The August 2012 edition of the Run For The Bacon. That friendly lil' ol' QRP Sprint sponsored by your friends at the Flying Pigs QRP Amateur Radio Club International. Join us for a spell to have some fun and to say "Hi" to friends, old and new.

The time is the same as always:

East coast - 9:00 to 11:00 PM local time
Midwest - 8:00 to 10:00 PM local time
Rockies - 7:00 to 9:00 PM local time
West coast - 6:00 to 8:00 PM local time

The rules are at:

http://fpqrp.org/pigrun/

73 de Larry W2LJ
FP# 612
QRP ARCI# 4488

9731. RE: [AT_Sprint] Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-19 01:26:30 UTC
From: Dale Putnam
Topic: 9706 Message: 9731

Hi Jurg, I am very interested in his reply too. I havn't seen that problem not respond to the resoldering.Thank you and good luck,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: HB9BAB@...
Date: Sat, 18 Aug 2012 20:38:03 +0000
Subject: [AT_Sprint] Re: ATS-4 problem

HI Dale

Next week, I will try to resolder the rest of the circuit; hoping that will help!

If not, I will ask Steve

(when he will be back from his walk) to reprogram the IC, because I'm not equipted to do this job.

Meanwhile thanks

again for your help and advices!

73's HB9BAB / Jürg

----Ursprüngliche Nachricht----

Von: daleputnam@...

Datum: 18.08.2012 18:31

An: "AT Sprint"<at_sprint@yahoogroups.com>

Betreff: RE: [AT_Sprint] Re: ATS-4 problem

Hello

Jurg, Is it possible to reprogram the ic? I don't know how it would have gotten confused, but that could cure the

situation.

--... ...--

Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com

From: HB9BAB@...

Date: Sat, 18 Aug

2012 15:44:58 +0000

Subject: [AT_Sprint] Re: ATS-4 problem

Hallo

Dale

I resoldered U7 and U9 but the problem still stays on. Next, I will have a closer look with my binocular,

hoping the problem will get solved!

Thanks for helping; meanwhile I am on the air with my ATS-3b.

73s Jürg / HB9BAB

----Ursprüngliche Nachricht----

Von: daleputnam@...

Datum: 17.08.2012 15:11

An: "AT Sprint"

<at_sprint@yahoogroups.com>

Betreff: RE: [AT_Sprint] Re: ATS-4 problem

GM Jurg, Since the short at the ic on each

lead goes away when the paddle is not activated, with power off the radio. That then leads me to examine very closely

the soldering around the ic.There is a possibility that the ic would respond to a reprogramming. However, soldering

is

certainly more likely. Particularly around U7 and U9. Many times a reflow on the ic legs of the solder, will cure

issues.Good luck,

--... ...--

Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com

From: HB9BAB@...

Date:

Fri, 17

Aug 2012 08:50:19 +0000

Subject: [AT_Sprint] Re: ATS-4 problem

Gm

Dale

I did measure the paddle

shorting to ground either the dit or the dah, when the paddle is activated (but rig

not powered on) form the jack

back to the IC (pins) and I got always a perfect shortening.

73 s Jürg, HB9BAB

Ursprüngliche

Nachricht----

Von: daleputnam@...

Datum: 16.08.2012 23:22

An: "AT Sprint"

<at_sprint@yahoogroups.

com>

Betreff: RE: AW: RE: AW: [AT_Sprint] Re: ATS-4 problem

You're very welcome, Looking

at not seeing the

short from

either paddle (dit or dah) to ground, from the jack on toward the ic... is a problem..

let me re-ask,

just to make sure,

I'm asking it correctly. With no power to the radio, and the paddle plugged in,

Can you

measure the paddle shorting

to ground either the dit or the dah, when the paddle is activated ?IF that is

measureable, at the jack, can you trace

that action to the IC, by putting your meter probe, closer and closer to

the

ic, while activating the paddle.. ?Trace

that way on both the dit and the dah side. What do you find?

--

... ...

--

Dale - WC7S in Wy

To:

AT_Sprint@yahoogroups.com

From: HB9BAB@...

Date: Thu, 16 Aug

2012 21:05:31 +0000

Subject: AW: RE: AW:

[AT_Sprint] Re: ATS-4 problem

Hallo Dale

tks fr replying.

What

is the response when

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After disconnecting the battery for a couple minutes,

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measure the

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power applied to the radio, all the way up to the ic, both pins 13 and 14

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meter: no shorting in jack; up to pin 13 and 14 no shorting either.

Could it be a bad soldering

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Meanwhile thanks for helping!

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pins 13 and 14 of the MPS340?

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Dale - WC7S in Wy

To:

AT_Sprint@yahoogroups.com

From:

HB9BAB@...

Date: Thu, 16 Aug 2012 14:30:38

+0000

Subject: AW: [AT_Sprint]

Re:

ATS-4 problem

it is the second version; with the on-button on top.

----Ursprüngliche Nachricht----

Von:

bruce.

beford@myfairpoint.net

Datum: 16.08.2012 16:17

An:

<AT_Sprint@yahoogroups.com>

Betreff: [AT_Sprint]

Re: ATS-4 problem

which version of the

ATS-4 do you have?

first

run ATS-4 with the power button on the

front,

or ATS-4a or 4b? I am not sure if there is a

"full reset"

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which may help, if this is a

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I am away for the next several days at

our local amateur

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convention www.stellafane.org so I will only be on rarely during the weekend.

Perhaps some other

users have

some thoughts on this problem...

Good luck!,

Bruce N1RX

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> thanks in advance.

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JÃ¼rg,

> HB9BAB

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> ----UrsprÃ¼ngliche Nachricht----

>

Von: bruce.beford@...

> Datum:

15.08.2012 17:29

> An:

>

<AT_Sprint@yahoogroups.com>

> Betreff: [AT_Sprint] Re:

ATS-4

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> Possibly a short-circuit at

the paddle jack wiring?

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> Bruce, N1RX

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> (as indicated

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> > Is

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to reset to "paddle

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mode" or could it be a bad solder

>

connection?

> > I would be glad to

glad to get some advice.

> >

Thanks in advance

> > HB9BAB /

> >

JÃƒÂ¼rg

> >

>

9732. FS: HP iPAQ h4100 w/ PocketDigi

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-19 17:05:17 UTC
From: John Shadle
Topic: 9721 Message: 9732

1 of these has been spoken for. If you're interested in the second,
drop me a line to arrange shipping/payment.

73
-john W4PAH
Madison, WI

---------- Forwarded message ----------
From: John Shadle <shadle@...>
Date: Fri, Aug 17, 2012 at 3:45 PM
Subject: FS: HP iPAQ h4100 w/ PocketDigi
To: at_sprint <AT_Sprint@yahoogroups.com>

Hi all,
I have 2 HP iPAQ h4100 PocketPC models for sale. They both have
PocketDigi installed on them, as well as the Windows software that
comes with these devices (Word, Excel, etc.).

Both are in great condition (no scratches on the units, etc.) with
batteries that hold a charge.

Each also has a soft case for the iPAQs and a docking station with USB cable.

I'm asking $55 shipped for each, or $105 if you want both (including shipping).

Please reply off list.

Thanks!
-john W4PAH
Madison, WI

9733. Re: [AT_Sprint] FS: HP iPAQ h4100 w/ PocketDigi

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-20 12:06:05 UTC
From: Wayne Dillon
Topic: 9721 Message: 9733

Good morning John,
Can you tell me which "Windows" is teh operationg system on the last pocket PC?
Thanks
Wayne - KC0PMH

On Sun, Aug 19, 2012 at 12:05 PM, John Shadle <shadle@...>wrote:

> 1 of these has been spoken for. If you're interested in the second,
> drop me a line to arrange shipping/payment.
>
> 73
> -john W4PAH
> Madison, WI
>
>
> ---------- Forwarded message ----------
> From: John Shadle <shadle@...>
> Date: Fri, Aug 17, 2012 at 3:45 PM
> Subject: FS: HP iPAQ h4100 w/ PocketDigi
> To: at_sprint <AT_Sprint@yahoogroups.com>
>
>
> Hi all,
> I have 2 HP iPAQ h4100 PocketPC models for sale. They both have
> PocketDigi installed on them, as well as the Windows software that
> comes with these devices (Word, Excel, etc.).
>
> Both are in great condition (no scratches on the units, etc.) with
> batteries that hold a charge.
>
> Each also has a soft case for the iPAQs and a docking station with USB
> cable.
>
> I'm asking $55 shipped for each, or $105 if you want both (including
> shipping).
>
> Please reply off list.
>
> Thanks!
> -john W4PAH
> Madison, WI
>
>
> ------------------------------------

>
> Yahoo! Groups Links
>
>
>
>

--
http://www.qsl.net/kc0pmh/ Under construction but please visit anyway.
**
QRP - *EFFICIENCY AND SKILL, NOT POWER.*

I'm British by birth but American by CHOICE!

Jesus came to pay a debt He didn't owe because we owe a debt we cannot pay...

May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
1 Jn 2:17

http://www.4sqrp.com/index.php

4 State QRP Group NCS - 40m & 160m
FPQRP #342 (Flying Pigs QRP Club)
G-QRP-C #11504
NAQCC # 0759
QRP-ARCI #11505
SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9734. Re: FS: HP iPAQ h4100 w/ PocketDigi

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-21 12:57:49 UTC
From: shadle
Topic: 9721 Message: 9734

Hi Wayne,
It's Pocket PC Windows 2003 Premium...but both have now been spoken for.

Thanks for your interest!
-john

--- In AT_Sprint@yahoogroups.com, Wayne Dillon <wayne.dillon@...> wrote:
>
> Good morning John,
> Can you tell me which "Windows" is teh operationg system on the last pocket
> PC?
> Thanks
> Wayne - KC0PMH

9735. Re: [AT_Sprint] Re: FS: HP iPAQ h4100 w/ PocketDigi

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-21 12:59:24 UTC
From: Wayne Dillon
Topic: 9721 Message: 9735

Thanks John.

On Tue, Aug 21, 2012 at 7:57 AM, shadle <shadle@...> wrote:

> Hi Wayne,
> It's Pocket PC Windows 2003 Premium...but both have now been spoken for.
>
> Thanks for your interest!
> -john
>
> --- In AT_Sprint@yahoogroups.com, Wayne Dillon <wayne.dillon@...> wrote:
> >
> > Good morning John,
> > Can you tell me which "Windows" is teh operationg system on the last
> pocket
> > PC?
> > Thanks
> > Wayne - KC0PMH
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
http://www.qsl.net/kc0pmh/ Under construction but please visit anyway.
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QRP - *EFFICIENCY AND SKILL, NOT POWER.*

I'm British by birth but American by CHOICE!

Jesus came to pay a debt He didn't owe because we owe a debt we cannot
pay...

May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
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http://www.4sqrp.com/index.php

4 State QRP Group NCS - 40m & 160m
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QRP-ARCI #11505
SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9736. K6JSS/UNIO during Ohio QSO Party Saturday, August 25, 1600Z

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-23 00:57:13 UTC
From: Hank Greeb
Topic: 9736 Message: 9736

Please be advised that I'll be operating as K6JSS/UNIO from UNIOn county, Ohio near Columbus. This event starts at 1600Z August 25, and ends at 0359:59Z on August 26. (That's Saturday evening in the United States and Canada). Rules for the party can be found at http://www.ohqp.org

If you're in the contest, or hear my signal, please spot me on your favorite DX cluster, and/or QRPSPOTS.com. Note that the rules allow for use of DX Clusters, Reverse Beacon Network, QRPSpots, etc. for all categories of operation.

Unless things change, I'll be the only fixed station on from UNIOn county, so folks will like to know when/where I'm operating.

This event is part of the K6JSS State QSO Party Challenge. Details of the challenge are at the QRZ.com page for K6JSS and at http://www.qrparci.org/content/view/8407/139/

Hope to see many AT-Sprinters during the contest. If you contact me, please try to contact at least two or three others, so you won't be unique to my log.

Tnx es 73 de n8xx Hg
Operating K6JSS/UNIO during OHQP 2012

9737. K6JSS/UNIO during Ohio QSO Party Saturday, August 25, 1600Z

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-23 00:57:50 UTC
From: Hank Greeb
Topic: 9736 Message: 9737

Please be advised that I'll be operating as K6JSS/UNIO from UNIOn county, Ohio near Columbus. This event starts at 1600Z August 25, and ends at 0359:59Z on August 26. (That's Saturday evening in the United States and Canada). Rules for the party can be found at http://www.ohqp.org

If you're in the contest, or hear my signal, please spot me on your favorite DX cluster, and/or QRPSPOTS.com. Note that the rules allow for use of DX Clusters, Reverse Beacon Network, QRPSpots, etc. for all categories of operation.

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This event is part of the K6JSS State QSO Party Challenge. Details of the challenge are at the QRZ.com page for K6JSS and at http://www.qrparci.org/content/view/8407/139/

Hope to see many West Michigan ops during the contest. If you contact me, please try to contact at least two or three others, so you won't be unique to my log.

Tnx es 73 de n8xx Hg
Operating K6JSS/UNIO during OHQP 2012

9738. MTR max input voltage

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-24 12:00:12 UTC
From: Thomas Campie
Topic: 9738 Message: 9738

Reading throughout he manual it makes it pretty clear that you should not use over 12v source for the power. Does that mean I cannot use my 13.8v supply? is 12v really 12v in this case?

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

9739. Re: [AT_Sprint] MTR max input voltage

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-24 12:24:32 UTC
From: Hank Greeb
Topic: 9738 Message: 9739

TJ:

Typically when KD1JV says "xx Max voltage" he means it. There's usually a diode across the output to protect from spikes in the voltage (due to SWR, etc.) and to make sure the PA transistors' max voltage isn't exceeded. Many folks talk about using a series of diodes to reduce 13.8 Volts to 12 Volts, or using a DC/DC converter to change from 13.8 to 12 volts, so "user beware!"

I generally run my AT-Sprint @ 9 VDC, where such considerations are minimal. It puts out 3 watts solid with 9VDC, which is good enough for me. :)

72/73 de n8xx Hg

p.s. Hope to meet you tomorrow after 1600Z for the Ohio QSO party. I'll be running K6JSS/UNIO to set a new QRP record for the county (there's none at present) and to partook of the K6JSS State QSO Party challenge.

On 8/24/2012 8:00 AM, Thomas Campie wrote:
>
>
> Reading throughout he manual it makes it pretty clear that you should
> not use over 12v source for the power. Does that mean I cannot use my
> 13.8v supply? is 12v really 12v in this case?
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> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
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> Because QRO is too easy

9740. Re: [AT_Sprint] MTR max input voltage

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-24 12:34:17 UTC
From: TJ Campie
Topic: 9738 Message: 9740

Ok! I've been using my 8 cell NiMH pack at about 10.1v nominal for 4w out but wanted to put my MTR in the car so I can get some SOTA stuff on lunch at work. I'll be sure to bring the battery pack along instead of trying to run off of the car battery.

Good luck in the contest - not sure I'll have time to get on much but if I do, I'll be looking for ya.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Aug 24, 2012 at 7:24 AM, Hank Greeb <n8xx@...> wrote:

> **
>
>
> TJ:
>
> Typically when KD1JV says "xx Max voltage" he means it. There's usually a
> diode across the output to protect from spikes in the voltage (due to SWR,
> etc.) and to make sure the PA transistors' max voltage isn't exceeded.
> Many folks talk about using a series of diodes to reduce 13.8 Volts to 12
> Volts, or using a DC/DC converter to change from 13.8 to 12 volts, so "user
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> p.s. Hope to meet you tomorrow after 1600Z for the Ohio QSO party. I'll
> be running K6JSS/UNIO to set a new QRP record for the county (there's none
> at present) and to partook of the K6JSS State QSO Party challenge.
>
> On 8/24/2012 8:00 AM, Thomas Campie wrote:
>
> Reading throughout he manual it makes it pretty clear that you should not
> use over 12v source for the power. Does that mean I cannot use my 13.8v
> supply? is 12v really 12v in this case?
>

> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> Because QRO is too easy
>
>
>

9741. Re: [AT_Sprint] ATS4b 20 M problem: 65 MHZ

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-24 23:03:26 UTC
From: Dan Birnbaum
Topic: 9722 Message: 9741

Dale,
Thanks for your suggestions. I got off work early today and finally had time to follow them.

The R39 value is correct at 10 K and I re-flowed the solder
R43 has 3.3 volts on one side and the pin 9 side shows
80 M 2.24 V
40 M 1.65 V
30 M 0.57 V
15M 0.23 V

I'm not sure what they are supposed to be but that looks like it might be reasonable. So the MCU should then be shifting the DDS to the correct frequency? Any other ideas where to hunt next for what is causing 20 meters to jump to 65 MHZ

Thanks again for the suggestions?

On Aug 18, 2012, at 7:57 AM, Dale Putnam wrote:

>
> Hi Dan,
> A reflow after checking r39 for correct value, of the resistor, maybe in order. Then a check of the voltage on the pin 9 side of r43, when s6 is switched from band to band.
> This may provide a bit of guidance to where to look next.
> Good luck,
>
> --... ...-- Dale - WC7S in Wy
>
> To: AT_Sprint@yahoogroups.com
> From: dancbirnbaum@...
> Date: Fri, 17 Aug 2012 23:12:52 +0000
> Subject: [AT_Sprint] ATS4b 20 M problem: 65 MHZ
>
>
> Hi
> I posted about this before but still have not been able to find the problem. During the initial tests the rig worked correctly on all bands but jumped to 65 MHZ on 20 meters several times and then went back to 14 mHz. The problem then returned and now moving s6 to the 20 m position results in the display showing 65.032.861 MHZ. with a loud tone and the S meter full scale. I can vary the frequency but if I power off and on again it goes back to that same frequency
>
> I have tried resoldering U10, U7, looked all over for shorts or bad solder connections (which is still most likely the problem?). Another ham suggested desoldering S6 to eliminate possible short from too much solder above the board, but that also did not help. The rig seems to function perfectly on all other bands.

>
> Does anyone have any other suggestions for locating the problem?
>
> Thanks in advance for any help or suggestions!
>
> Dan
> AD6JY
>
>
>
>
>

9742. FOX: Good MORNING FoxHunters!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-25 16:51:05 UTC
From: Dale Putnam
Topic: 9742 Message: 9742

It is a wonderful day in the life of a foxhunter!... Yep. Sky is blue, not very many clouds, the temp is 57 and rising, the breeze is too much to paint the house, and I have time to work on antennas, and scan the foxpage..... Did you see that NK6A just barely squeeeeeeeked by K4BAI for the TOP FOX... and there is only one week left..... to hunt in... and only one more log to score.. then this last week will be posted too... As it stands now tho.. with two weeks left to post... Don is on the top of the Fox Den Standings. Now how about those Hounds????WOW!... NK6A is holding the top spot for Hounds too! But there are 6 Hungry Hounds nippin and yippin at his heels.... Not nary a slip can he afford. Better come check out the excitement, and watch this coming Thursday... as the Hounds close in... and the Foxii... slip slyly through the woods.... It's going to be a 90 minutes exciting close to the season. And remember we have a no fire ban in the woods... so watch out for sparks, arcs and no flame throwers allowed, in the last hunt of the summer of 2012. Good Luck to all and to all a Good Hunt!!

--... ...--
Dale - WC7S in Wy and there have been 949 pelts handed out with two weeks to go... can we break 1300 pelts this year? Bring your friends along, bet we can!

9743. Want to buy ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-25 20:08:06 UTC
From: nz8j
Topic: 9743 Message: 9743

Looking for a ATS-4B. Must be working 100%, if you have one for sale please send details and asking price shipped to zip 45324.
Can pay by immediate Paypal or US Postal money order if necessary.
Thanks
Tim
NZ8J

9744. RE: [AT_Sprint] Want to buy ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-25 21:50:49 UTC
From: Dale Putnam
Topic: 9743 Message: 9744

Hi Tim I have the two modules.. one is done, working on the other one. I may have an AT4 here.. but not the b... I like the b.. it is the best of the series, to me. altho... the choice of 15 or 17m must be made....and that is a bit of a detractor. But... really no much at all.The rx in both the 3 or 4 are hot... the tx are no slouch... and the keying in both are almost identical...I have a winkeyer USB here.. that is really getting in the way for any of the normal keying... I am just not happy with it... would much rather use the keyers built into the 3 or 4... or the TriBander... if you're looking for a three band rig.. that is the one to get.It is a HOT rx... and great tx... knob tuning.. switch for bands.. and is a hole through kit.. Hendricks has it... nifty radio.I have one just for the FoxHunts. Pretty cool.. to.. it hasn't let me down yet... and that's comparing it with the K2 It is even pretty effective in contests too. But.. only three bands.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: nz8j@....com
Date: Sat, 25 Aug 2012 20:08:06 +0000
Subject: [AT_Sprint] Want to buy ATS-4B

Looking for a ATS-4B. Must be working 100%, if you have one for sale please send details and asking price shipped to zip 45324.

Can pay by immediate Paypal or US Postal money order if necessary.

Thanks

Tim

NZ8J

9745. RE: [AT_Sprint] Want to buy ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-26 00:24:47 UTC
From: Michael Wyman
Topic: 9743 Message: 9745

Tim,

You don't have to make a sacrifice on 17 or 15 meters . . . If you can give up 80 meters, you can have 40 through 15 . . . I've done it and it works great . . .

Cheers es 72 de

Mike

W1DRY

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Saturday, August 25, 2012 2:51 PM
To: AT Sprint
Subject: RE: [AT_Sprint] Want to buy ATS-4B

Hi Tim
I have the two modules.. one is done, working on the other one.
I may have an AT4 here.. but not the b...
I like the b.. it is the best of the series, to me. altho... the choice of 15 or 17m must be made....
and that is a bit of a detractor. But... really no much at all.
The rx in both the 3 or 4 are hot... the tx are no slouch... and the keying in both are almost identical...
I have a winkeyer USB here.. that is really getting in the way for any of the normal keying... I am just not happy with it...
would much rather use the keyers built into the 3 or 4... or the TriBander... if you're looking for a three band rig.. that is the one to get.
It is a HOT rx... and great tx... knob tuning.. switch for bands.. and is a hole through kit.. Hendricks has it... nifty radio.
I have one just for the FoxHunts.
Pretty cool.. to.. it hasn't let me down yet... and that's comparing it with the K2 It is even pretty effective in contests too. But.. only three bands.

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: nz8j@...
Date: Sat, 25 Aug 2012 20:08:06 +0000
Subject: [AT_Sprint] Want to buy ATS-4B

Looking for a ATS-4B. Must be working 100%, if you have one for sale please send details and asking price shipped to zip 45324.
Can pay by immediate Paypal or US Postal money order if necessary.
Thanks
Tim
NZ8J

9746. ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-25 23:04:09 UTC
From: Mike Olbrisch
Topic: 9743 Message: 9746

Good morning. Just waking up - two nights down, only two to go. Then 15 days off.

Just checking in - how is my birthday present coming along?

Hope you are well.... take care. If your lights go out, it ain't my fault! <grin>.

Mike - KD9KC.

9747. RE: [AT_Sprint] ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-26 18:51:32 UTC
From: Dale Putnam
Topic: 9743 Message: 9747

It's coming along, I'm trying to get it done in time for you to enjoy while you're off.. but I might miss that...We'll see. Matthew (10yr old) has his home schooling starting tomorrow... and his teacher will be teaching and building... Great fun. Sometimes I get him to build with me... He built a TriBander for me a while back. Have a great day, oh.. did you want a bnc or a phono connector for the antenna? and do you want the tune up switch that drops the power all the way to 3.5 watts or so... ??I like to check a couple times before closing the lid... sorta thing. Have a great day,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: mike-2007@elp.rr.com
Date: Sat, 25 Aug 2012 17:04:09 -0600
Subject: [AT_Sprint] ATS-4B

Good morning. Just waking up - two nights down, only two to go. Then 15 days off. Just checking in - how is my birthday present coming along? Hope you are well.... take care. If your lights go out, it ain't my fault! <grin>. Mike - KD9KC.

9748. Re: [AT_Sprint] ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-26 19:19:44 UTC
From: Barry N1EU
Topic: 9743 Message: 9748

Dale, any word on my ATS-3B?

Thanks & 73,
Barry N1EU

On Sun, Aug 26, 2012 at 6:51 PM, Dale Putnam <daleputnam@...> wrote:

> **
>
>
> It's coming along, I'm trying to get it done in time for you to enjoy
> while you're off.. but I might miss that...
> We'll see.
> Matthew (10yr old) has his home schooling starting tomorrow... and his
> teacher will be teaching and building...
> Great fun. Sometimes I get him to build with me... He built a TriBander
> for me a while back.
>
> Have a great day, oh.. did you want a bnc or a phono connector for the
> antenna? and do you want the tune up switch that drops the power all the
> way to 3.5 watts or so... ??
> I like to check a couple times before closing the lid... sorta thing.
> Have a great day,
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: mike-2007@...
> Date: Sat, 25 Aug 2012 17:04:09 -0600
> Subject: [AT_Sprint] ATS-4B
>
>
>
>
>
>
> Good morning. Just waking up - two nights down, only two to go. Then 15
> days off.
>
>
>
> Just checking in - how is my birthday present coming along?
>
>
>

> Hope you are well.... take care. If your lights go out, it ain't my
> fault! <grin>.
>
>
>
> Mike - KD9KC.
>
>
>
>

9749. RE: [AT_Sprint] ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-26 19:53:25 UTC
From: Dale Putnam
Topic: 9743 Message: 9749

Hi Barry, Wading through a bunch of email... whew. Almost as bad as scooping the driveway... from snow.. but the way things are going here.. snow would be a welcome change.... for a day or two.It is moving along just fine. A glitch here.. a solder connection intermittant there.. but moving.. and that is what counts.Do you want to make a label for it.. or do use mine? Preference of color of label?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: n1eu.barry@...
Date: Sun, 26 Aug 2012 19:19:44 +0000
Subject: Re: [AT_Sprint] ATS-4B

Dale, any word on my ATS-3B?
Thanks & 73,Barry N1EU

On Sun, Aug 26, 2012 at 6:51 PM, Dale Putnam <daleputnam@...> wrote:

It's coming along, I'm trying to get it done in time for you to enjoy while you're off.. but I might miss that...
We'll see.
Matthew (10yr old) has his home schooling starting tomorrow... and his teacher will be teaching and building...

Great fun. Sometimes I get him to build with me... He built a TriBander for me a while back.

Have a great day, oh.. did you want a bnc or a phono connector for the antenna? and do you want the tune up switch that drops the power all the way to 3.5 watts or so... ??

I like to check a couple times before closing the lid... sorta thing.
Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: mike-2007@...

Date: Sat, 25 Aug 2012 17:04:09 -0600
Subject: [AT_Sprint] ATS-4B

Good morning. Just waking up - two nights down, only two to go. Then 15 days off.

Just checking in - how is my birthday present coming along?

Hope you are well.... take care. If your lights go out, it ain't my fault! <grin>.

Mike - KD9KC.

9750. Re: [AT_Sprint] ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-26 20:29:51 UTC
From: Barry N1EU
Topic: 9743 Message: 9750

Dale, can you email a copy of your label please? My main concern is that the color is a decent match to the case and, if possible, the label would have the switch functions enumerated, such as:

http://groups.yahoo.com/group/AT_Sprint/photos/album/744936926/pic/475172432/view?picmode=large&mode=tn&order=ordinal&start=1&dir=asc

Thanks for your attention to this. It's been 10 weeks, so appreciate it if you could move it up the cue.

Thanks & 73,
Barry N1EU

On Sun, Aug 26, 2012 at 7:53 PM, Dale Putnam <daleputnam@...> wrote:

> **
>
>
> Hi Barry,
> Wading through a bunch of email... whew. Almost as bad as scooping the
> driveway... from snow.. but the way things are going here.. snow would be
> a welcome change.... for a day or two.
> It is moving along just fine. A glitch here.. a solder connection
> intermittant there.. but moving.. and that is what counts.
> Do you want to make a label for it.. or do use mine? Preference of color
> of label?
>
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: n1eu.barry@...
> Date: Sun, 26 Aug 2012 19:19:44 +0000
> Subject: Re: [AT_Sprint] ATS-4B
>
>
>
> Dale, any word on my ATS-3B?
>
> Thanks & 73,
> Barry N1EU
>
> On Sun, Aug 26, 2012 at 6:51 PM, Dale Putnam <daleputnam@...>wrote:
>
> **

>
>
>
> It's coming along, I'm trying to get it done in time for you to enjoy
> while you're off.. but I might miss that...
> We'll see.
> Matthew (10yr old) has his home schooling starting tomorrow... and his
> teacher will be teaching and building...
> Great fun. Sometimes I get him to build with me... He built a TriBander
> for me a while back.
>
> Have a great day, oh.. did you want a bnc or a phono connector for the
> antenna? and do you want the tune up switch that drops the power all the
> way to 3.5 watts or so... ??
> I like to check a couple times before closing the lid... sorta thing.
> Have a great day,
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: mike-2007@....com
> Date: Sat, 25 Aug 2012 17:04:09 -0600
> Subject: [AT_Sprint] ATS-4B
>
>
>
>
>
> Good morning. Just waking up - two nights down, only two to go. Then 15
> days off.
>
> Just checking in - how is my birthday present coming along?
>
> Hope you are well.... take care. If your lights go out, it ain't my
> fault! <grin>.
>
> Mike - KD9KC.
>
>
>
>
>
>
>

9751. Re: [AT_Sprint] ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-26 21:41:36 UTC
From: Randy Moore
Topic: 9743 Message: 9751

Hey, Dale, what's this tune up switch?

73,
Randy, KS4L

On Aug 26, 2012, at 1:51 PM, Dale Putnam <daleputnam@...> wrote:

> and do you want the tune up switch that drops the power all the way to 3.5 watts or so...
??
>

9752. RE: [AT_Sprint] ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-26 21:29:20 UTC
From: Mike Olbrisch
Topic: 9743 Message: 9752

Taking this direct.

Mike.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Sunday, August 26, 2012 12:52
To: AT Sprint
Subject: RE: [AT_Sprint] ATS-4B

It's coming along, I'm trying to get it done in time for you to enjoy while you're off.. but I might miss that...
We'll see.
Matthew (10yr old) has his home schooling starting tomorrow... and his teacher will be teaching and building...
Great fun. Sometimes I get him to build with me... He built a TriBander for me a while back.

Have a great day, oh.. did you want a bnc or a phono connector for the antenna? and do you want the tune up switch that drops the power all the way to 3.5 watts or so... ??
I like to check a couple times before closing the lid... sorta thing.
Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: mike-2007@...
Date: Sat, 25 Aug 2012 17:04:09 -0600
Subject: [AT_Sprint] ATS-4B

Good morning. Just waking up - two nights down, only two to go. Then 15 days off.

Just checking in - how is my birthday present coming along?

Hope you are well.... take care. If your lights go out, it ain't my fault! <grin>.

Mike - KD9KC.

9753. ESD mats portable set for safe soldering - all shipped

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-27 10:00:57 UTC
From: Petr
Topic: 9753 Message: 9753

Hello all,

Just FYI...

I would like to inform that all ordered/paid ESD mat sets has been shipped including an email confirmation and own tracking number with link to tracking website.

I hope that all will arrive safely and that You will enjoy Your new ESD tool as much as me in my home lab. Your comments will be appreciated. Hope that it will help to all of us with ESD protection during our homebrewing.

...and one more think

Yes, 1MOhm resistor to limiting the current is included in both blue coiled wires so additional grounding point with resistor is not needed.

My best regards,

73 - Petr, OK1RP

9754. Re: FS: HP iPAQ h4100 w/ PocketDigi

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-27 13:07:46 UTC
From: wa2ohf
Topic: 9721 Message: 9754

Hello I have HP iPAQ h4100 PocketPC models for sale 50.00 shipped USA with case PocketDigi installed on them, as well as the Windows software that
> comes with these devices (Word, Excel, etc.).

Arthur NS7E arthurripple@gmail.com

--- In AT_Sprint@yahoogroups.com, John Shadle <shadle@...> wrote:
>
> Hi all,
> I have 2 HP iPAQ h4100 PocketPC models for sale. They both have
> PocketDigi installed on them, as well as the Windows software that
> comes with these devices (Word, Excel, etc.).
>
> Both are in great condition (no scratches on the units, etc.) with
> batteries that hold a charge.
>
> Each also has a soft case for the iPAQs and a docking station with USB cable.
>
> I'm asking $55 shipped for each, or $105 if you want both (including shipping).
>
> Please reply off list.
>
> Thanks!
> -john W4PAH
> Madison, WI
>

9755. HP iPAQ h4100 PocketPC

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-27 13:11:37 UTC
From: wa2ohf
Topic: 9755 Message: 9755

Hi all, I have An HP iPAQ h4100 PocketPC models for sale 50 shipped in the USA . They have PocketDigi installed on them, as well as the Windows software that comes with these... case and docking station with cable to your pc.

9756. Re: HP iPAQ h4100 PocketPC

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-27 13:12:46 UTC
From: wa2ohf
Topic: 9755 Message: 9756

I forgot my address and call Arthur NS7E 952-758-2421

--- In AT_Sprint@yahoogroups.com, "wa2ohf" <arthurripple@...> wrote:
>
> Hi all, I have An HP iPAQ h4100 PocketPC models for sale 50 shipped in the USA . They have PocketDigi installed on them, as well as the Windows software that comes with these... case and docking station with cable to your pc.
>

9757. Re: ATS-4 problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-31 10:15:14 UTC
From: Guido
Topic: 9706 Message: 9757

Hello Jürg

Same happened to me when I by mistake put the Power plug into the Keyer socket.
I am Talking about the ATS-4A. Stuck on straight key. I had to replace the processor. If you need a processor to replace send me a email
73
Guido
HB9BQB

--- In AT_Sprint@yahoogroups.com, "A.-L. und J. Allemann" <HB9BAB@...> wrote:
>
> Hallo
> For months, my ATS 4 worked nicely, but since a few weeks, I only can operate "straight key" and the function
> switch only can be used for switching off (as indicated in the manual).
> Is there a possibility to reset to "paddle
> mode" or could it be a bad solder connection?
> I would be glad to glad to get some advice.
> Thanks in advance
> HB9BAB /
> JÃ¼rg
>

9758. FS: ATS-3b.1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-08-31 23:41:25 UTC
From: russellhulett
Topic: 9758 Message: 9758

Selling my ATS-3b.1, used very little besides a two-week trip to Ontario (Pix in KB5JO photos folder). It's operational, housed in an altoids tin, all band modules. Asking $175 shipped CONUS. Paypal only.

Interested, please contact me offline.

72, Curt KB5JO

9759. Re: FS: ATS-3b.1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-01 01:36:11 UTC
From: russellhulett
Topic: 9758 Message: 9759

SOLD pending receipt of funds

--- In AT_Sprint@yahoogroups.com, "russellhulett" <rhulett1@...> wrote:
>
> Selling my ATS-3b.1, used very little besides a two-week trip to Ontario (Pix in KB5JO photos folder). It's operational, housed in an altoids tin, all band modules. Asking $175 shipped CONUS. Paypal only.
>
> Interested, please contact me offline.
>
> 72, Curt KB5JO
>

9760. Re: [AT_Sprint] FS: ATS-3b.1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-01 03:17:24 UTC
From: Wilford D Lindsey
Topic: 9758 Message: 9760

Curt:

Just wondering = Could I possibly interest you in a trade of my MFJ 9420 SSB/CB 20 Metre rig for your ATS-3b? This little 10-watt guy is excellent for both portable and fixed station use, and it really puts out quite a potent ssb signal.

And this rig has the CW adaptor built in, so it is very easy to get on in that mode.

Anyway, could I possibly interest you in such a trade, or are you looking for cash only?

73,
Doc/K0EVZ

Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: "russellhulett" <rhulett1@comcast.net>
Sender: AT_Sprint@yahoogroups.com
Date: Fri, 31 Aug 2012 23:41:25
To: <AT_Sprint@yahoogroups.com>
Reply-To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] FS: ATS-3b.1

Selling my ATS-3b.1, used very little besides a two-week trip to Ontario (Pix in KB5JO photos folder). It's operational, housed in an altoids tin, all band modules. Asking $175 shipped CONUS. Paypal only.

Interested, please contact me offline.

72, Curt KB5JO

9761. 65 Mhz on 20 meters ATS4b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-01 23:20:51 UTC
From: Dan Birnbaum
Topic: 9761 Message: 9761

HI
I am still stumped by my ATS4b that got through its initial tests fine--- including 20 meters but now shows 65 mhz on 20 meters with all other bands working fine.

The R39 value is correct at 10 K and I re-flowed the solder there.
R43 has 3.3 volts on one side and the pin 9 side shows
80 M 2.24 V
40 M 1.65 V
30 M 0.57 V
15M 0.23 V

This looks about right. Just to be sure I tacked a resistor across the 30 M resistor to get about 10 k and the frequency jumped from 10 mhz to 65 on that band so the problem is after the band switch. Any suggestions where to look next?

Thanks

Dan
AD6JY

9762. Re: [AT_Sprint] 65 Mhz on 20 meters ATS4b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-02 01:03:02 UTC
From: Steven Weber
Topic: 9761 Message: 9762

> I am still stumped by my ATS4b that got through its initial tests fine---
> including 20 meters but now shows 65 mhz on 20 meters with all other bands
> working fine.
>

Dan,

I belive there was (or is) a bug in the program which caused that to happen. It's a rare event and I'm not sure if I ever figured out what sequence of events caused it to happen to be able to fix it. In any event, the processor will need to be re-flashed to fix the problem. You can sent it to me to do that if you like.

72, Steve KD1JV

PS - Yes, I'm finally back from hiking Vermonts Long Trail - 270 miles in 26 days :)

9763. Hello all

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-04 10:01:42 UTC
From: f6ddv
Topic: 9763 Message: 9763

Hello to all
My name is jean-paul LE NAN
My call: F6DDV, in IN88GQ
I come on this list to see the history of these small units KD1JV, I do not know these arrangements,
it is very small and quite extraordinary I built a pfr3 and TRX series DCxxB and some other KIT .
I do not know if the kit is still available now?
73s
F6DDV

9764. Re: [AT_Sprint] Hello all

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-04 12:37:42 UTC
From: Yannick (XV4Y)
Topic: 9763 Message: 9764

Hi,

I will answer to Jean-Paul in french is there are no objections...

Bonjour Jean-Paul.
Le dernier transceiver de Steve, le Mountain Topper Rig a été produit a environ 150 exemplaires tous vendus en moins de 48 heures début avril.
Steve a profité des derniers mois pour s'adonner à son autre passion (celle qui l'a conduit à concevoir les ATS et MTR) la grande randonnée en montagne.
Il est de retour chez lui depuis quelques jours, et si tout va comme il le souhaitait devrait commencer à travailler sur un nouveau transceiver.
Soyez patient et suivez les échanges sur la liste. Beaucoup de choses intéressantes y sont échangées.

Par ailleurs, d'autres transceivers conçus par Steve KD1JV (dont le PFR-3 dont vous parlez) sont toujours disponibles chez Hendricks QRP kits...

Amitiés,
Yannick.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

Le 4 sept. 2012 à 17:01, f6ddv a écrit :

>
>
> Hello to all
> My name is jean-paul LE NAN
> My call: F6DDV, in IN88GQ
> I come on this list to see the history of these small units KD1JV, I do not know these arrangements,
> it is very small and quite extraordinary I built a pfr3 and TRX series DCxxB and some other KIT .
> I do not know if the kit is still available now?
> 73s
> F6DDV
>
>
>

9765. Re: [AT_Sprint] Hello all

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-04 12:58:11 UTC
From: f6ddv
Topic: 9763 Message: 9765

Bonjour Yannick
Je fais assez court pour ne pas gêner les amis de la liste
Je ne connais pas le Mountain Topper Ring, je vais regarder attentivement les documents et les photos de la liste
Je ne sais pas ou sont présentés et vendus les kits de Steve , il y a sans doute une entreprise qui vend
sur un web site ?
Oui, j'ai ici le pfr3 et DC30B et je connais bien le site Hendricks QRP Kits je suis un Client , HI ...
73s to all
jean-paul F6DDV
From: Yannick (XV4Y)
To: AT_Sprint@yahoogroups.com
Hi,

I will answer to Jean-Paul in french is there are no objections...

Bonjour Jean-Paul.
Le dernier transceiver de Steve, le Mountain Topper Rig a été produit a environ 150 exemplaires tous vendus en moins de 48 heures début avril.
Steve a profité des derniers mois pour s'adonner à son autre passion (celle qui l'a conduit à concevoir les ATS et MTR) la grande randonnée en montagne.
Il est de retour chez lui depuis quelques jours, et si tout va comme il le souhaitait devrait commencer à travailler sur un nouveau transceiver.
Soyez patient et suivez les échanges sur la liste. Beaucoup de choses intéressantes y sont échangées.

Par ailleurs, d'autres transceivers conçus par Steve KD1JV (dont le PFR-3 dont vous parlez) sont toujours disponibles chez Hendricks QRP kits...

Amitiés,
Yannick.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

Le 4 sept. 2012 à 17:01, f6ddv a écrit :

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> Hello to all
> My name is jean-paul LE NAN
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arrangements,
> it is very small and quite extraordinary I built a pfr3 and TRX series DCxxB and some other KIT .
> I do not know if the kit is still available now?
> 73s
> F6DDV
>
>
>

9766. Re: [AT_Sprint] Hello all

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-05 01:18:33 UTC
From: Yannick (XV4Y)
Topic: 9763 Message: 9766

Dear fellow QRPers,

Sorry again but I will shortly answer this one in French as it may help that some content is archived in the list.
However, I will follow this discussion in private e-mails with Jean-Paul.

Jean-Paul,

Le Mountain Topper Rig et la dernière incarnation des transceivers de KD1JV dédiés au SOTA ou à la randonnée.
C'est un "retour à la simplicité" avec un design proche des ATS-3 mais sans modules enfichables pour changer de bandes.
C'est un design moderne et performant avec DDS et micro-contrôleur pour la gestion de la fréquence, le manip électronique, les mémoires...
Le transceiver est donc bi-bandes (deux bandes avec comme maximum 14 MHz), dispose d'un seul afficheur 8-segments et délivre 5W sous 12V.
Il est très compact car tous les composants ou presque sont en CMS. Il est prévu pour être monté dans une boîte de bonbons Altoids.
Quelques photos ici :
http://xv4y.radioclub.asia/category/ham-radio/materiel/mtr-materiel/

La série précédente, celles des ATS-4 était beaucoup plus complète (afficheur LCD, multi-bandes) mais peut-être moins adapté à la vraie randonnée où chaque gramme emporté dans un sac-à-dos compte.
L'ATS-4 est relativement proche du PFR-3 mais utilise plus de CMS. Le kit était complet avec boîtier inclus.

Steve affiche les informations sur les kits qu'il propose sur la page suivante :
http://kd1jv.qrpradio.com/
Toutefois, il ne conserve pas d'archive des kits offerts et quand ceux-ci sont tous vendus, la page disparait.
Les vraies archives des documents sont sur ce présent groupe dans la sections "Fichiers".

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

Le 4 sept. 2012 à 19:58, f6ddv a écrit :

>
>
> Bonjour Yannick
> Je fais assez court pour ne pas gêner les amis de la liste

> Je ne connais pas le Mountain Topper Ring, je vais regarder attentivement les documents et les photos de la liste
> Je ne sais pas ou sont présentés et vendus les kits de Steve , il y a sans doute une entreprise qui vend
> sur un web site ?
> Oui, j'ai ici le pfr3 et DC30B et je connais bien le site Hendricks QRP Kits je suis un Client , HI ...
> 73s to all
> jean-paul F6DDV
> From: Yannick (XV4Y)
> To: AT_Sprint@yahoogroups.com
> Hi,
>
> I will answer to Jean-Paul in french is there are no objections...
>
> Bonjour Jean-Paul.
> Le dernier transceiver de Steve, le Mountain Topper Rig a été produit a environ 150 exemplaires tous vendus en moins de 48 heures début avril.
> Steve a profité des derniers mois pour s'adonner à son autre passion (celle qui l'a conduit à concevoir les ATS et MTR) la grande randonnée en montagne.
> Il est de retour chez lui depuis quelques jours, et si tout va comme il le souhaitait devrait commencer à travailler sur un nouveau transceiver.
> Soyez patient et suivez les échanges sur la liste. Beaucoup de choses intéressantes y sont échangées.
>
> Par ailleurs, d'autres transceivers conçus par Steve KD1JV (dont le PFR-3 dont vous parlez) sont toujours disponibles chez Hendricks QRP kits...
>
> Amitiés,
> Yannick.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
> http://www.qslwatch.com/
>
> Le 4 sept. 2012 à 17:01, f6ddv a écrit :
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> > Hello to all
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> > My call: F6DDV, in IN88GQ
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> > it is very small and quite extraordinary I built a pfr3 and TRX series DCxxB and some other KIT .
> > I do not know if the kit is still available now?
> > 73s
> > F6DDV

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9768. FS: QBSA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-05 02:00:00 UTC
From: k6jf_radio
Topic: 9768 Message: 9768

Hi everyone. Up for sale is my QRP Base Station Accessory. I have used it very little so decided to sell and use the proceeds towards either an ATS-4 or Weber Tribander.

You can see photos of the item in the Photos area:
http://groups.yahoo.com/group/AT_Sprint/photos/album/1354932441/pic/list

I am asking $40 plus shipping and insurance from zip 94087, your choice Parcel Post or Priority Mail Medium Flat Rate box. Payment by money order. If you wish to use PayPal I would ask for another 1.5% for PayPal fees.

Please contact me off line.

Jim K6JF

9769. Re: FS: QBSA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-06 03:19:00 UTC
From: k6jf_radio
Topic: 9768 Message: 9769

The QBSA has been sold to the first response I received.

Jim K6JF

9770. FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 17:33:21 UTC
From: Robin Kidd
Topic: 9770 Message: 9770

I have the following radios for sale - they are all built and are working fine:

KD1JV MTR - $100

ATS-3B with modules in Altoids box (2 radios available) - $100 each

I wanted to offer these radios to the group before posting them to qth.com. Shipping to the US (not Alaska or Hawaii) at no additional cost. Thank you for the bandwidth.

72/73,

Robin

W4IEN

w4ien@...

678-488-9655

9771. Re: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 17:40:16 UTC
From: jaevans@pcisys.net
Topic: 9770 Message: 9771

Which bands did you build the MTR for?

> I have the following radios for sale - they are all built and are working
> fine:
>
>
>
> KD1JV MTR - $100
>
> ATS-3B with modules in Altoids box (2 radios available) - $100 each
>
>
>
> I wanted to offer these radios to the group before posting them to qth.com.
> Shipping to the US (not Alaska or Hawaii) at no additional cost. Thank you
> for the bandwidth.
>
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>
> 72/73,
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>
> Robin
>
> W4IEN
>
> w4ien@...
>
> 678-488-9655
>
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>
>

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

9772. Re: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 17:42:35 UTC
From: Chris
Topic: 9770 Message: 9772

Hi Robin,

I will take one ATS-3B.

Thanks,

Chris AD1AD

On Thu, Sep 13, 2012 at 1:33 PM, Robin Kidd <w4ien@...> wrote:

> **
>
>
> I have the following radios for sale – they are all built and are working
> fine:****
>
> ** **
>
> KD1JV MTR - $100****
>
> ATS-3B with modules in Altoids box (2 radios available) - $100 each****
>
> ** **
>
> I wanted to offer these radios to the group before posting them to qth.com.
> Shipping to the US (not Alaska or Hawaii) at no additional cost. Thank you
> for the bandwidth.****
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> ** **
>
> 72/73,****
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> ** **
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> Robin****
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> W4IEN****
>
> w4ien@...****
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> 678-488-9655****
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The whole problem with the world is that fools and fanatics are always so certain of themselves, but wiser people so full of doubts.

9773. RE: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 17:51:09 UTC
From: Robin Kidd
Topic: 9770 Message: 9773
Attachments: 2 described; binary payloads are missing from this source WARC

The MTR was built for 40M/20M.

72/73,

Robin

W4IEN

<mailto:w4ien@...> w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of jaevans@...
Sent: Thursday, September 13, 2012 1:40 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] FS: ATS-3B and MTR Radios

Which bands did you build the MTR for?

> I have the following radios for sale - they are all built and are working
> fine:
>
>
>
> KD1JV MTR - $100
>
> ATS-3B with modules in Altoids box (2 radios available) - $100 each
>
>
>
> I wanted to offer these radios to the group before posting them to
qth.com.
> Shipping to the US (not Alaska or Hawaii) at no additional cost. Thank you
> for the bandwidth.
>
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>
> 72/73,
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>
>
> Robin
>
> W4IEN
>

> w4ien@... <mailto:w4ien%40comcast.net>
>
> 678-488-9655
>
>
>
>

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

9774. RE: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 17:52:10 UTC
From: Robin Kidd
Topic: 9770 Message: 9774
Attachments: 2 described; binary payloads are missing from this source WARC

Chris,

You have one. How would you prefer to pay? What is your shipping address?

72/73,

Robin

W4IEN

<mailto:w4ien@...> w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Chris
Sent: Thursday, September 13, 2012 1:43 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] FS: ATS-3B and MTR Radios

Hi Robin,

I will take one ATS-3B.

Thanks,

Chris AD1AD

On Thu, Sep 13, 2012 at 1:33 PM, Robin Kidd <w4ien@...> wrote:

I have the following radios for sale - they are all built and are working fine:

KD1JV MTR - $100

ATS-3B with modules in Altoids box (2 radios available) - $100 each

I wanted to offer these radios to the group before posting them to qth.com. Shipping to the US (not Alaska or Hawaii) at no additional cost. Thank you for the bandwidth.

72/73,

Robin

W4IEN

w4ien@...

678-488-9655

--

The whole problem with the world is that fools and fanatics are always so certain of themselves, but wiser people so full of doubts.

9775. Re: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 17:55:16 UTC
From: Chris
Topic: 9770 Message: 9775

Hi Robin,

Whichever way you prefer. I can do PayPal or Postal MO but PayPal is preferred. In order to avoid service charge, I can send you as I owe you some money.

Thanks,

Chris

On Thu, Sep 13, 2012 at 1:52 PM, Robin Kidd <w4ien@...> wrote:

> **
>
>
> Chris,****
>
> You have one. How would you prefer to pay? What is your shipping
> address?****
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> ** **
>
> 72/73,****
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> ** **
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> Robin****
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> W4IEN****
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> w4ien@...t****
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> 678-488-9655****
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> ** **
>
> *From:* AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] *On
> Behalf Of *Chris
> *Sent:* Thursday, September 13, 2012 1:43 PM
>
> *To:* AT_Sprint@yahoogroups.com
> *Subject:* Re: [AT_Sprint] FS: ATS-3B and MTR Radios****
>
> ** **
>
> ****

>
> Hi Robin,
>
>
> I will take one ATS-3B.
>
> Thanks,
>
> Chris AD1AD
>
> ****
>
> On Thu, Sep 13, 2012 at 1:33 PM, Robin Kidd <w4ien@...> wrote:****
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> ****
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> I have the following radios for sale – they are all built and are working
> fine:****
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> ****
>
> KD1JV MTR - $100****
>
> ATS-3B with modules in Altoids box (2 radios available) - $100 each****
>
> ****
>
> I wanted to offer these radios to the group before posting them to qth.com.
> Shipping to the US (not Alaska or Hawaii) at no additional cost. Thank you
> for the bandwidth.****
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> 72/73,****
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> W4IEN****
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> w4ien@...****
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> 678-488-9655****
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> The whole problem with the world is that fools and fanatics are always so
> certain of themselves, but wiser people so full of doubts.****
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The whole problem with the world is that fools and fanatics are always so
certain of themselves, but wiser people so full of doubts.

9776. RE: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 17:56:34 UTC
From: Robin Kidd
Topic: 9770 Message: 9776

The ATS-3B radios have been spoken for. If the sales fall through I will post to the group. Thank you all.

72/73,

Robin

W4IEN

<mailto:w4ien@...> w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Robin Kidd
Sent: Thursday, September 13, 2012 1:33 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] FS: ATS-3B and MTR Radios

I have the following radios for sale - they are all built and are working fine:

KD1JV MTR - $100

ATS-3B with modules in Altoids box (2 radios available) - $100 each

I wanted to offer these radios to the group before posting them to qth.com. Shipping to the US (not Alaska or Hawaii) at no additional cost. Thank you for the bandwidth.

72/73,

Robin

W4IEN

w4ien@...

678-488-9655

9777. Re: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 18:10:03 UTC
From: Chris
Topic: 9770 Message: 9777

Let me rephrase it. What I meant was, I can send you money through PayPal as if I owe you some money (not for goods) so that there is no service charge.

Thanks,

Chris

On Thu, Sep 13, 2012 at 1:55 PM, Chris <ve3uvt@gmail.com> wrote:

> Hi Robin,
>
> Whichever way you prefer. I can do PayPal or Postal MO but PayPal is
> preferred. In order to avoid service charge, I can send you as I owe you
> some money.
>
> Thanks,
>
> Chris
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>
> On Thu, Sep 13, 2012 at 1:52 PM, Robin Kidd <w4ien@...> wrote:
>
>> **
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>> Chris,****
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>> You have one. How would you prefer to pay? What is your shipping
>> address?****
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>> ** **
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>> 72/73,****
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>> ** **
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>> Robin****
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>> W4IEN****
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>> w4ien@...****
>>
>> 678-488-9655****
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>> ** **
>>
>> *From:* AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] *On
>> Behalf Of *Chris
>> *Sent:* Thursday, September 13, 2012 1:43 PM
>>
>> *To:* AT_Sprint@yahoogroups.com
>> *Subject:* Re: [AT_Sprint] FS: ATS-3B and MTR Radios****
>>
>> ** **
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>> ****
>>
>> Hi Robin,
>>
>>
>> I will take one ATS-3B.
>>
>> Thanks,
>>
>> Chris AD1AD
>>
>> ****
>>
>> On Thu, Sep 13, 2012 at 1:33 PM, Robin Kidd <w4ien@...t> wrote:***
>> *
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>> ****
>>
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>> fine:****
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>> ****
>>
>> KD1JV MTR - $100****
>>
>> ATS-3B with modules in Altoids box (2 radios available) - $100 each****
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>> ****
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>> cost. Thank you for the bandwidth.****
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>> 72/73,****
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>> Robin****
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>> W4IEN****
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>> w4ien@...****
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>> 678-488-9655****
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>> The whole problem with the world is that fools and fanatics are always so
>> certain of themselves, but wiser people so full of doubts.****
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The whole problem with the world is that fools and fanatics are always so
certain of themselves, but wiser people so full of doubts.
```

9778. Re: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 18:13:11 UTC
From: Chris
Topic: 9770 Message: 9778

Sorry guys. Please disregard my previous post. It was sent to the group by mistake.

9779. RE: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 18:20:41 UTC
From: Robin Kidd
Topic: 9770 Message: 9779

Chris,

That is fine. PayPal userid w4ien@.... Need your shipping address.

72/73,

Robin

W4IEN

<mailto:w4ien@...> w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Chris
Sent: Thursday, September 13, 2012 2:10 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] FS: ATS-3B and MTR Radios

Let me rephrase it. What I meant was, I can send you money through PayPal as if I owe you some money (not for goods) so that there is no service charge.

Thanks,

Chris

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Chris

On Thu, Sep 13, 2012 at 1:52 PM, Robin Kidd <w4ien@...> wrote:

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You have one. How would you prefer to pay? What is your shipping address?

72/73,

Robin

W4IEN

w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Chris
Sent: Thursday, September 13, 2012 1:43 PM

To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] FS: ATS-3B and MTR Radios

Hi Robin,

I will take one ATS-3B.

Thanks,

Chris AD1AD

On Thu, Sep 13, 2012 at 1:33 PM, Robin Kidd <w4ien@...> wrote:

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ATS-3B with modules in Altoids box (2 radios available) - $100 each

I wanted to offer these radios to the group before posting them to qth.com. Shipping to the US (not Alaska or Hawaii) at no additional cost. Thank you for the bandwidth.

72/73,

Robin

W4IEN

w4ien@...

678-488-9655

--

The whole problem with the world is that fools and fanatics are always so certain of themselves, but wiser people so full of doubts.

--

The whole problem with the world is that fools and fanatics are always so certain of themselves, but wiser people so full of doubts.

--

The whole problem with the world is that fools and fanatics are always so certain of themselves, but wiser people so full of doubts.

9780. Re: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 19:42:13 UTC
From: Frank Skinner
Topic: 9770 Message: 9780

If the MTR is still available I will take it.

Frank
K0JQZ
f_skinner@yahoo.com

From: Robin Kidd <w4ien@...>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, September 13, 2012 11:33 AM
Subject: [AT_Sprint] FS: ATS-3B and MTR Radios

I have the following radios for sale – they are all built and are working fine:

KD1JV MTR - $100
ATS-3B with modules in Altoids box (2 radios available) - $100 each

I wanted to offer these radios to the group before posting them to qth.com. Shipping to the US (not Alaska or Hawaii) at no additional cost. Thank you for the bandwidth.

72/73,

Robin
W4IEN
w4ien@...
678-488-9655

9781. RE: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 20:35:44 UTC
From: Robin Kidd
Topic: 9770 Message: 9781

Frank,

The MTR is still available. I have two other people express interest but nobody has claimed it.

72/73,

Robin

W4IEN

<mailto:w4ien@...> w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Frank Skinner
Sent: Thursday, September 13, 2012 3:42 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] FS: ATS-3B and MTR Radios

If the MTR is still available I will take it.

Frank

K0JQZ

f_skinner@...

From: Robin Kidd <w4ien@...>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, September 13, 2012 11:33 AM
Subject: [AT_Sprint] FS: ATS-3B and MTR Radios

I have the following radios for sale – they are all built and are working fine:

KD1JV MTR - $100

ATS-3B with modules in Altoids box (2 radios available) - $100 each

I wanted to offer these radios to the group before posting them to qth.com <http://qth.com/> . Shipping to the US (not Alaska or Hawaii) at no additional cost. Thank you for the bandwidth.

72/73,

Robin

W4IEN

w4ien@...

678-488-9655

9782. RE: [AT_Sprint] FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-13 20:36:41 UTC
From: Robin Kidd
Topic: 9770 Message: 9782

Sorry just got a payment for the MTR

72/73,

Robin

W4IEN

<mailto:w4ien@...> w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Frank Skinner
Sent: Thursday, September 13, 2012 3:42 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] FS: ATS-3B and MTR Radios

If the MTR is still available I will take it.

Frank

K0JQZ

f_skinner@...

From: Robin Kidd <w4ien@...>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, September 13, 2012 11:33 AM
Subject: [AT_Sprint] FS: ATS-3B and MTR Radios

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72/73,

Robin

W4IEN

w4ien@...

678-488-9655

9783. Re: [AT_Sprint] Hello all

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-15 20:47:30 UTC
From: f6ddv
Topic: 9763 Message: 9783

Hi yannick
Hi everyone
sorry for my poor language in English
You are right to write that I am a "fan" KD1JV work, which could not have admiration for all these achievements and those
distributed by the company Hendricks, and many others ...
I discovered this for some time, and I'm actually surprised the pfr3 is wonderful and easy to build.
The Mountain Topper Rig is amazing, but I think I came too late, I'm not talking about the ATS 3 b which pleases me a lot with its modules,
the two units athers bands can be selected I think ... but how to be at the right time ...
TRX can buy a ready-made, because I think the guys are very excited about all these arrangements,
and will be selling some if you can not have these kits, this is a big job and we can understand,
73s all
F6DDV
----- Original Message -----
From: Yannick (XV4Y)
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, September 05, 2012 3:18 AM
Subject: Re: [AT_Sprint] Hello all

Dear fellow QRPers,

Sorry again but I will shortly answer this one in French as it may help that some content is archived in the list.
However, I will follow this discussion in private e-mails with Jean-Paul.

Jean-Paul,

Le Mountain Topper Rig et la dernière incarnation des transceivers de KD1JV dédiés au SOTA ou à la randonnée.
C'est un "retour à la simplicité" avec un design proche des ATS-3 mais sans modules enfichables pour changer de bandes.
C'est un design moderne et performant avec DDS et micro-contrôleur pour la gestion de la fréquence, le manip électronique, les mémoires...
Le transceiver est donc bi-bandes (deux bandes avec comme maximum 14 MHz), dispose d'un seul afficheur 8-segments et délivre 5W sous 12V.
Il est très compact car tous les composants ou presque sont en CMS. Il est prévu pour être monté dans une boîte de bonbons Altoids.
Quelques photos ici :
http://xv4y.radioclub.asia/category/ham-radio/materiel/mtr-materiel/

La série précédente, celles des ATS-4 était beaucoup plus complète (afficheur LCD, multi-bandes) mais peut-être moins adapté à la vraie randonnée où chaque gramme emporté

dans un sac-à-dos compte.
L'ATS-4 est relativement proche du PFR-3 mais utilise plus de CMS. Le kit était complet avec boîtier inclus.

Steve affiche les informations sur les kits qu'il propose sur la page suivante :
http://kd1jv.qrpradio.com/
Toutefois, il ne conserve pas d'archive des kits offerts et quand ceux-ci sont tous vendus, la page disparait.
Les vraies archives des documents sont sur ce présent groupe dans la sections "Fichiers".

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

Le 4 sept. 2012 à 19:58, f6ddv a écrit :

>
>
> Bonjour Yannick
> Je fais assez court pour ne pas gêner les amis de la liste
> Je ne connais pas le Mountain Topper Ring, je vais regarder attentivement les documents et les photos de la liste
> Je ne sais pas ou sont présentés et vendus les kits de Steve , il y a sans doute une entreprise qui vend
> sur un web site ?
> Oui, j'ai ici le pfr3 et DC30B et je connais bien le site Hendricks QRP Kits je suis un Client , HI ...
> 73s to all
> jean-paul F6DDV
> From: Yannick (XV4Y)
> To: AT_Sprint@yahoogroups.com
> Hi,
>
> I will answer to Jean-Paul in french is there are no objections...
>
> Bonjour Jean-Paul.
> Le dernier transceiver de Steve, le Mountain Topper Rig a été produit a environ 150 exemplaires tous vendus en moins de 48 heures début avril.
> Steve a profité des derniers mois pour s'adonner à son autre passion (celle qui l'a conduit à concevoir les ATS et MTR) la grande randonnée en montagne.
> Il est de retour chez lui depuis quelques jours, et si tout va comme il le souhaitait devrait commencer à travailler sur un nouveau transceiver.
> Soyez patient et suivez les échanges sur la liste. Beaucoup de choses intéressantes y sont échangées.
>
> Par ailleurs, d'autres transceivers conçus par Steve KD1JV (dont le PFR-3 dont vous parlez) sont toujours disponibles chez Hendricks QRP kits...
>

> Amitiés,
> Yannick.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
> http://www.qslwatch.com/
>
> Le 4 sept. 2012 à 17:01, f6ddv a écrit :
>
> >
> >
> > Hello to all
> > My name is jean-paul LE NAN
> > My call: F6DDV, in IN88GQ
> > I come on this list to see the history of these small units KD1JV, I do not know these arrangements,
> > it is very small and quite extraordinary I built a pfr3 and TRX series DCxxB and some other KIT .
> > I do not know if the kit is still available now?
> > 73s
> > F6DDV
> >
> >
> >
>
>
>
>
>

9784. First portable operation with my MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 03:37:37 UTC
From: Yannick (XV4Y)
Topic: 9784 Message: 9784

Hi,

Yesterday I went to my in law's farm (Soc Trang, Mekong delta) and for the first time brought my new portable set up consisting a 20/30m MTR and a "fishing-pole" ground plane with 4 radials.
I had the station running in 30 minutes (need to trim the antenna since it was first usage) but the operating time was the worst possible since it was 11 am local time.
On the equator 20m is closed at that time except for less than 1-2000km QSOs but no B or YB stations were active.
I kept calling CQ and tuning over the band but it was not before 3pm local time that I was able to hear some traffic.
Only 3 QSOs so far with VR2CM, JA5GCI and... V63MJ. The latter being a real DX (5700 km) and rare entity, I worked him just at the beginning of the pile-up but was amazed to have him in the log so easily with only 4Watts. No doubt the MTR has a clean signal since he heard me right from first call and I was not the only one calling!

Great fun! Thanks Steve for this marvelous rig. Exactly the one I needed.

More pictures and details here (in french but you can use Google Translation).
As you may notice on the picture the only negative point of the day was my W5JH paddle was broken by one of the kids...
http://xv4y.radioclub.asia/2012/09/16/en-portable-qrp-avec-le-mountain-topper-rig/

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/
http://www.qslwatch.com/

9785. ATS4 Sidetone

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 15:24:07 UTC
From: WA0ITP
Topic: 9785 Message: 9785

After two recent portable outings, with lots of calling CQ, I've decided that I need to do something with the sidetone. It's a super rig, and I love it but for comfort during long sesions, I need to round off the square wave and also decrease the volume.

Looks like a place to start is with the values of R20 and C56. I'm sure Steve has spent considerable time on this so with my meager skills I may be unable to change it much, if at all. A single or 2 stage RC lowpass would probably do the trick nicely, but it doesn't look as if there's if there's room for it.

Has anyone modified theirs, or considered options to enhance the sidetone quality?

TIA for any info.

I love this radio stuff !
72 WA?ITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

9786. RE: [AT_Sprint] ATS4 Sidetone

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 16:29:41 UTC
From: Dale Putnam
Topic: 9785 Message: 9786

If that is a 4... then there is a r20 feeding into pin 3 of U4.. it is a 1meg, that can be changed.. to a pot.. or a different value resistor to put the level where you want it. OR.. a better fix would be to add a 10k pot to feed pin3 with the audio feeding the pot coming from r20. Then you would have a "set" it to conditions sidetone level.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: wa0itp@...
Date: Sun, 16 Sep 2012 10:24:07 -0500
Subject: [AT_Sprint] ATS4 Sidetone

After two recent portable outings, with lots of calling CQ, I've

decided that I need to do something with the sidetone. It's a super

rig, and I love it but for comfort during long sesions, I need to

round off the square wave and also decrease the volume.

Looks like a place to start is with the values of R20 and C56. I'm

sure Steve has spent considerable time on this so with my meager

skills I may be unable to change it much, if at all. A single or 2

stage RC lowpass would probably do the trick nicely, but it doesn't

look as if there's if there's room for it.

Has anyone modified theirs, or considered options to enhance the

sidetone quality?

TIA for any info.

I love this radio stuff !

72 WAØITP

www.wa0itp.com

www.4sqrp.com

www.qrpspots.com

9787. no sidetone on ATS-3B.1 initial bringup

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 18:46:26 UTC
From: scottg720
Topic: 9787 Message: 9787

I'm going through the initial bringup of an ATS-3B.1 main board and not hearing the sidetone '8' come through the speaker. I looked back through the archives and found

http://groups.yahoo.com/group/AT_Sprint/message/4024

which was very helpful. I think I've been through all suggested in this thread, but may have missed something.

It appears that the sidetone is being generated and not making it through the audio section (?).

Observations with my board:

1. on power up I hear a quick popping noise followed by a short burst of white noise, followed by an 8 on the LED display, after which the LED goes blank

2. The 5V and 3.5V regulators are working OK

3. TP1 reads 0V, R19 on the side away from TP1 reads 0V

4. There are no observable bridges on any ICs

5. On power up my scope shows an audio square wave coming out of pin 3 of U8 and it blinks an '8' in code! It also shows a lower amplitude wave form on pin 3 of U4 blinking '8', although it doesn't look like a square wave.

6. on U8 I have 5V on pins 2, 4, 10, 12, 14 and 0V on all others

7. U7 voltages are 1:1.2, 2:1.2, 3:3.5, 4:5.0, 5:3.5, 6:2.5, 7:0 8:1.7, 9:0, 10:0, 11:0, 12:0, 13:0, 14:3.5, 15:3.5, 16:0, 17:0.4, 18:0, 19:0.4, 20: 0.8

8. U3 voltages are 5V on all but pin 4 which is 0V. Voltage table in the manual says only P8 should read 5V. Is this part of the problem?

9. U4 voltages are 1:5.0, 2:0, 3:floating, 4:5.0, 5:5.0, 6:3.5. Table says P1 and P4 should be 2.2V, problem?

10. All ICs are oriented properly.

Actions taken:

1. touched up solder connections for U4, U5, U7 and U8, all components that touch U3 and U4

2. touched up solder connections for audio connector

Ideas?

tnx and 73,
Scott, K1OA

9788. Re: [AT_Sprint] ATS4 Sidetone

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 18:48:07 UTC
From: WA0ITP
Topic: 9785 Message: 9788

Thanks Dale,

Any thoughts on the waveform? I wonder if 2 RC filters (2 resistors and 2 caps) in series, with a cutoff of about 1kc could do both. If I could find room.

I love this radio stuff !
72 WAØITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: Dale Putnam
To: AT Sprint
Sent: Sunday, September 16, 2012 11:29 AM
Subject: RE: [AT_Sprint] ATS4 Sidetone

If that is a 4... then there is a r20 feeding into pin 3 of U4.. it is a 1meg, that can be changed.. to a pot.. or a different value resistor to put the level where you want it. OR.. a better fix would be to
add a 10k pot to feed pin3 with the audio feeding the pot coming from r20.
Then you would have a "set" it to conditions sidetone level.

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: wa0itp@mchsi.com
Date: Sun, 16 Sep 2012 10:24:07 -0500
Subject: [AT_Sprint] ATS4 Sidetone

After two recent portable outings, with lots of calling CQ, I've decided that I need to do something with the sidetone. It's a super rig, and I love it but for comfort during long sesions, I need to round off the square wave and also decrease the volume.

Looks like a place to start is with the values of R20 and C56. I'm sure Steve has spent considerable time on this so with my meager skills I may be unable to change it much, if at all. A single or 2 stage RC lowpass would probably do the trick nicely, but it doesn't look as if there's if there's room for it.

Has anyone modified theirs, or considered options to enhance the sidetone quality?

TIA for any info.

I love this radio stuff !
72 WAØITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

9789. NAQCC Sprint Wednesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 20:12:40 UTC
From: NAQCC
Topic: 2848 Message: 9789

NAQCC Sprint Wednesday night!

Our September sprint is this coming Wednesday evening local time (September 19, EDT - 8:30-10:30PM, CDT - 7:30-9:30PM, MDT - 6:30-8:30PM, PDT - 5:30-7:30PM), which translates as Thursday September 20, 0030-0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201209.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX. A Certificate for top score in the GAIN antenna category. Finally there is one more award - a certificate to the highest score from a first-time participant.

Prizes: A prize of a set of bug/paddle handles or a K1/K2 knob insert donated by master woodworker Gregg WB8LZG is awarded for each sprint to the winner of a random drawing among all participants. Previous winners are not eligible.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6230+ members in: All 50 States - 9 VE Provinces - 90 Countries. Just sign up on the NAQCC website (http://naqcc.info/) and you will receive a handsome certificate, with your membership number which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

9790. RE: [AT_Sprint] ATS4 Sidetone

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 22:34:19 UTC
From: Dale Putnam
Topic: 9785 Message: 9790

that has been discussed but only a little... that is something I want to look into also.. I much prefer a sine wave for a tone. This one is generated with square waves... and a multitude of them too.mixing and carrying on... to the result that it is difficult for me to zero with someone.. close yes... zero no.Bet you play music too, don't you? Might as Steve, he's back now... or.. if you want, I'll check it out in a couple days.. k?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: wa0itp@...
Date: Sun, 16 Sep 2012 13:48:07 -0500
Subject: Re: [AT_Sprint] ATS4 Sidetone

Thanks Dale,

Any thoughts on the waveform?
I wonder if 2 RC filters (2 resistors and 2 caps) in series, with
a cutoff of about 1kc could do both. If I could find
room.

I love this
radio stuff !
72 WAØITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From:
Dale
Putnam
To: AT Sprint
Sent: Sunday, September 16, 2012 11:29
AM
Subject: RE: [AT_Sprint] ATS4
Sidetone

If that is a 4... then there is a r20 feeding into pin 3 of U4..
it is a 1meg, that can be changed.. to a pot.. or a different value resistor
to put the level where you want it. OR.. a better fix would be to
add a
10k pot to feed pin3 with the audio feeding the pot coming from r20.
Then
you would have a "set" it to conditions sidetone level.

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: wa0itp@...
Date: Sun, 16 Sep
2012 10:24:07 -0500
Subject: [AT_Sprint] ATS4 Sidetone

After two recent portable outings, with lots of calling
CQ, I've
decided that I need to do something with the sidetone. It's a
super
rig, and I love it but for comfort during long sesions, I need to

round off the square wave and also decrease the volume.

Looks like
a place to start is with the values of R20 and C56. I'm
sure Steve has
spent considerable time on this so with my meager
skills I may be unable
to change it much, if at all. A single or 2
stage RC lowpass would
probably do the trick nicely, but it doesn't
look as if there's if there's
room for it.

Has anyone modified theirs, or considered options to
enhance the
sidetone quality?

TIA for any
info.

I love this radio stuff !
72
WAØITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

9791. Re: no sidetone on ATS-3B.1 initial bringup

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 23:17:30 UTC
From: scottg720
Topic: 9787 Message: 9791

After probing around a bit with my oscope I discovered that after shorting pin 4 (gnd) on U3 directly to ground not only do I hear the sidetone '8' come through the headphones, I also hear what sounds like normal receiver hiss.

I've touched up the pin 4 solder joint a few times now but this doesn't seem to help.

Thoughts on this situation?

tnx and 73,
Scott

--- In AT_Sprint@yahoogroups.com, "scottg720" <k1oa@...> wrote:
>
> I'm going through the initial bringup of an ATS-3B.1 main
> board and not hearing the sidetone '8' come through the speaker.
> I looked back through the archives and found
>
> http://groups.yahoo.com/group/AT_Sprint/message/4024
>
> which was very helpful. I think I've been through all
> suggested in this thread, but may have missed something.
>
> It appears that the sidetone is being generated and not
> making it through the audio section (?).
>
>
> Observations with my board:
>
> 1. on power up I hear a quick popping noise followed
> by a short burst of white noise, followed by an 8
> on the LED display, after which the LED goes blank
>
> 2. The 5V and 3.5V regulators are working OK
>
> 3. TP1 reads 0V, R19 on the side away from TP1 reads 0V
>
> 4. There are no observable bridges on any ICs
>
> 5. On power up my scope shows an audio square wave coming out of
> pin 3 of U8 and it blinks an '8' in code! It also shows a lower
> amplitude wave form on pin 3 of U4 blinking '8', although it
> doesn't look like a square wave.
>
> 6. on U8 I have 5V on pins 2, 4, 10, 12, 14 and 0V on all others
>
> 7. U7 voltages are 1:1.2, 2:1.2, 3:3.5, 4:5.0, 5:3.5, 6:2.5, 7:0

> 8:1.7, 9:0, 10:0, 11:0, 12:0, 13:0, 14:3.5, 15:3.5, 16:0, 17:0.4,
> 18:0, 19:0.4, 20: 0.8
>
> 8. U3 voltages are 5V on all but pin 4 which is 0V. Voltage table in the manual says only P8 should read 5V. Is this part of the problem?
>
> 9. U4 voltages are 1:5.0, 2:0, 3:floating, 4:5.0, 5:5.0, 6:3.5. Table
> says P1 and P4 should be 2.2V, problem?
>
> 10. All ICs are oriented properly.
>
>
> Actions taken:
>
> 1. touched up solder connections for U4, U5, U7 and U8, all components
> that touch U3 and U4
>
> 2. touched up solder connections for audio connector
>
>
> Ideas?
>
> tnx and 73,
> Scott, K1OA
>

9792. SLQS Annual Tailgate Sale - Wed 9/19/12

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 18:49:59 UTC
From: dgauding
Topic: 9792 Message: 9792

Howdy,

This week! The St. Louis QRP Society is holding its annual
Tailgate Sale the evening of Wednesday, September 19, 2012. From
6:00 p.m until everyone goes home.

We will be at our usual location - the south east parking lot of Florissant Valley
Community College - just south of the new Engineering Building.

Never a charge to sell or browse. Bring gear to sell and money to buy more or better yet -
do both! Plan to talk a lot about QRP and homebrew for starters or just visit for a spell.

Brats off the grill & sodas for the hungry and thirsty. Antennas and radios available for
those wishing to get on the air or bring your ATS rig along

E-mail dgauding@sbcglobal.net for driving directions or more info.

Hope you can be with us.

Dave Gauding, NF0R FOR THE ST. LOUIS QRP SOCIETY

********** CELEBRATING our 25th Year **********

9793. ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 19:32:13 UTC
From: Mike Olbrisch
Topic: 9785 Message: 9793

Howdy Dale.

Hope you are doing well.

Any chance of the ATS-4 being here by 30 Sept? We (another hiker and I) have tentatively scheduled a hike to Anthony's Nose. He has done it before, and will be my guide. I have never hiked that summit, but I can see from Google-earth that it is no hike for weaklings. This is the summit that the ATS-4 was bought for, the trek is much too rugged for my usual FT-817/Alex-Loop. Gotta be lightweight. high-speed and low-drag!

The batteries have arrived, the tuner is built, the pole is ready. All I am waiting for is the radio and some thin wire to make a 40m through 15, EFHWA.

On a sad note, my main transceiver at home has died. It was an ICOM IC-781. I have not looked inside it yet. The few places I have contacted will not work on it, too old. Something let the smoke out. It posers up, but no RX audio out the speaker jack. Headphones work. Problem is, I have no place and little time to work on it.

My son (bless his heart) said he would go 50-50 with me on a new Yaesu FTDX-5000MP. He said call it birthday and Christmas combined. We were playing with one at a ham fest a few months ago, and I mentioned that of all the radios in the fest, that was the one I liked the best. So when he heard of the demise of the 781, he called and made the offer.

I can get most of the ~$2800 (my share) by selling off the other parts of the ICOM station. I have the European model of the IC-2KL amplifier. It has 10m and 12m fully functional, new caps in the power supply, and a new DC-DC converter. That will bring $1300-$1500 itself. Alongside that is the AT-500 antenna tuner, another $350 - $500 there. The speaker will certainly bring $150+. So that is a minimum of $1800. Even if I sell the IC-781 as broken, I should still get $500 or more. So hopefully my share of the Yaesu out of my pocket will be $500 or less.

Oh-well..... it is what it is.

Anyway - I have no working HF radio in the house at the moment! Sure is quiet in the shack!!!

Mike.

9794. RE: [AT_Sprint] ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 23:48:58 UTC
From: Dale Putnam
Topic: 9785 Message: 9794

that is a bad situation.. for sure.. I have a 761... and it has been just fine... hope it stays that way.. they are a bit of a mess to work on. Have you looked at the Elecraft K3? That is a fine radio.. and can be custom made to fit what you want to do with it too. I'll aim at a few days before the 30th... can't promise anything just yet, tho...

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: mike-2007@...
Date: Sun, 16 Sep 2012 13:32:13 -0600
Subject: [AT_Sprint] ATS-4B

Howdy Dale. Hope you are doing well. Any chance of the ATS-4 being here by 30 Sept? We (another hiker and I) have tentatively scheduled a hike to Anthony's Nose. He has done it before, and will be my guide. I have never hiked that summit, but I can see from Google-earth that it is no hike for weaklings. This is the summit that the ATS-4 was bought for, the trek is much too rugged for my usual FT-817/Alex-Loop. Gotta be lightweight. high-speed and low-drag! The batteries have arrived, the tuner is built, the pole is ready. All I am waiting for is the radio and some thin wire to make a 40m through 15, EFHWA. On a sad note, my main transceiver at home has died. It was an ICOM IC-781. I have not looked inside it yet. The few places I have contacted will not work on it, too old. Something let the smoke out. It posers up, but no RX audio out the speaker jack. Headphones work. Problem is, I have no place and little time to work on it. My son (bless his heart) said he would go 50-50 with me on a new Yaesu FTDX-5000MP. He said call it birthday and Christmas combined. We were playing with one at a ham fest a few months ago, and I mentioned that of all the radios in the fest, that was the one I liked the best. So when he heard of the demise of the 781, he called and made the offer. I can get most of the ~$2800 (my share) by selling off the other parts of the ICOM station. I have the European model of the IC-2KL amplifier. It has 10m and 12m fully functional, new caps in the power supply, and a new DC-DC converter. That will bring $1300-$1500 itself. Alongside that is the AT-500 antenna tuner, another $350 - $500 there. The speaker will certainly bring $150+. So that is a minimum of $1800. Even if I sell the IC-781 as broken, I should still get $500 or more. So hopefully my share of the Yaesu out of my pocket will be $500 or less. Oh-well..... it is what it is. Anyway - I have no working HF radio in the house at the moment! Sure is quiet in the shack!!! Mike.

9795. RE: [AT_Sprint] Re: no sidetone on ATS-3B.1 initial bringup

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-16 23:50:57 UTC
From: Dale Putnam
Topic: 9787 Message: 9795

Can you measure the resistance to ground from that pin? It may need to be connected to ground? Even tho the pin is supposed to be grounded on the board, maybe the holethrough plating has come loose, or not gotten installed correctly and there isn't a ground on it.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: k1oa@...
Date: Sun, 16 Sep 2012 23:17:30 +0000
Subject: [AT_Sprint] Re: no sidetone on ATS-3B.1 initial bringup

After probing around a bit with my oscope I discovered that after shorting pin 4 (gnd) on U3 directly to ground not only do I hear the sidetone '8' come through the headphones, I also hear what sounds like normal receiver hiss.

I've touched up the pin 4 solder joint a few times now but this doesn't seem to help.

Thoughts on this situation?

tnx and 73,

Scott

--- In AT_Sprint@yahoogroups.com, "scottg720" <k1oa@...> wrote:

>

> I'm going through the initial bringup of an ATS-3B.1 main

> board and not hearing the sidetone '8' come through the speaker.

> I looked back through the archives and found

>

> http://groups.yahoo.com/group/AT_Sprint/message/4024

>

> which was very helpful. I think I've been through all

> suggested in this thread, but may have missed something.

>

> It appears that the sidetone is being generated and not

> making it through the audio section (?).

>

>

> Observations with my board:

>

> 1. on power up I hear a quick popping noise followed

> by a short burst of white noise, followed by an 8

> on the LED display, after which the LED goes blank

>

> 2. The 5V and 3.5V regulators are working OK

>

> 3. TP1 reads 0V, R19 on the side away from TP1 reads 0V

>

> 4. There are no observable bridges on any ICs

>

> 5. On power up my scope shows an audio square wave coming out of

> pin 3 of U8 and it blinks an '8' in code! It also shows a lower

> amplitude wave form on pin 3 of U4 blinking '8', although it

> doesn't look like a square wave.

>

> 6. on U8 I have 5V on pins 2, 4, 10, 12, 14 and 0V on all others

>

> 7. U7 voltages are 1:1.2, 2:1.2, 3:3.5, 4:5.0, 5:3.5, 6:2.5, 7:0

> 8:1.7, 9:0, 10:0, 11:0, 12:0, 13:0, 14:3.5, 15:3.5, 16:0, 17:0.4,

> 18:0, 19:0.4, 20: 0.8

>

> 8. U3 voltages are 5V on all but pin 4 which is 0V. Voltage table in the manual says only P8 should read 5V. Is this part of the problem?

>

> 9. U4 voltages are 1:5.0, 2:0, 3:floating, 4:5.0, 5:5.0, 6:3.5. Table

> says P1 and P4 should be 2.2V, problem?

>

> 10. All ICs are oriented properly.

>

>

> Actions taken:

>

> 1. touched up solder connections for U4, U5, U7 and U8, all components

> that touch U3 and U4

>

> 2. touched up solder connections for audio connector

>

>

> Ideas?

>

> tnx and 73,

> Scott, K1OA

>

9796. FS: ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-17 00:03:16 UTC
From: Robin Kidd
Topic: 9796 Message: 9796

I wanted to offer my ATS-4B to a home where it will get more use. Price shipped to you is $250. It is fully built and tested. I wanted to offer it to the group first. Thank you for looking.

72/73,

Robin

W4IEN

w4ien@...

678-488-9655

9797. Re: [AT_Sprint] ATS4 Sidetone

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-17 00:11:58 UTC
From: Steven Weber
Topic: 9785 Message: 9797

The side tone in all the ATS rigs are software generated, Therefore, it has absolutely no relationship to the recieved signal. Unlike analog rigs, it is not possible to "listen" to your transmitted signal because the DDS is generating the transmit frequenc directly.

You do not match tones to be zero, you peak the incoming signal in the pass band of the filters, which is about 600 Hz if the BFO is adjusted properly.

As for level, the ATS-4 rigs have a side tone volume control - that's the little trim pot mounted just about the volume control, but under it's knob. The side tone from generated by the processor first drives the level control, then passes through a 1 meg and 0.1 ufd cap to further reduce it's amplitude and convert the signal to a trangluar wave. Most of the harmonics are removed by this filter. Actually, you want some harmonic content, as this makes it easier on the ears.

If your sidetone is very loud, it is possible the 0.1 cap is broken or the wrong value installed.

Steve

that has been discussed but only a little... that is something I want to look into also.. I much prefer a sine wave for a tone. This one is generated with square waves... and a multitude of them too.
mixing and carrying on... to the result that it is difficult for me to zero with someone.. close yes... zero no.
Bet you play music too, don't you?
Might as Steve, he's back now... or.. if you want, I'll check it out in a couple days.. k?

9798. Re: [AT_Sprint] ATS4 Sidetone

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-17 01:06:28 UTC
From: WA0ITP
Topic: 9785 Message: 9798

Tnx for the note Steve.

I don't see the sidetone level pot in the schematic, do I have an early version? Glad to know there's a level pot. I didnt remember it, and it will make it vy easy. I'll also check the values of the 1M/.1u filter. A sine wave sounds reasonably good so I may have a problem with that filter.

Thanks agn.

I love this radio stuff !
72 WAØITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Sunday, September 16, 2012 7:11 PM
Subject: Re: [AT_Sprint] ATS4 Sidetone

The side tone in all the ATS rigs are software generated, Therefore, it has absolutely no relationship to the recieved signal. Unlike analog rigs, it is not possible to "listen" to your transmitted signal because the DDS is generating the transmit frequenc directly.

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If your sidetone is very loud, it is possible the 0.1 cap is broken or the wrong value installed.

Steve

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mixing and carrying on... to the result that it is difficult for me to zero with someone.. close yes... zero no.
Bet you play music too, don't you?

Might as Steve, he's back now... or.. if you want, I'll check it out in a couple days.. k?

9800. RE: [AT_Sprint] FS: ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-17 13:31:57 UTC
From: Robin Kidd
Topic: 9796 Message: 9800

Marc,

Sorry it has been sold. Thank you for your interest.

72/73,

Robin

W4IEN

<mailto:w4ien@...> w4ien@...

678-488-9655

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of Marc Tinkler
Sent: Monday, September 17, 2012 5:27 AM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] FS: ATS-4B

Hi Robin

I wonder if your ATS-4B still available and will you ship to the UK?

Thanks... Marc G0AZS

On 17 September 2012 01:03, Robin Kidd <w4ien@...> wrote:

I wanted to offer my ATS-4B to a home where it will get more use. Price
shipped to you is $250. It is fully built and tested. I wanted to offer it
to the group first. Thank you for looking.

72/73,

Robin

W4IEN

w4ien@...

678-488-9655

9801. For Sale ATS3b-water tight box

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-17 14:14:44 UTC
From: Dale Putnam
Topic: 9801 Message: 9801

I have to let my water "proof" YELLOW cased ATS3b find another home to play in. Need to make some room, it appears. So this wonderfully visible, elements resistant, fully operational,exceeding specs 5 band 5 watt cw radio with rotary encoder and freq counter, all you need is a key, andearbuds, a battery and antenna.
I know this little Yellow Fellow, can provide hours and hours of fun. Due to the size of the box, it will need to ship medium sized priority box, USPS. Asking $275 shipped to your own mailbox. as soon as payment is posted to Paypal or other arrangements are agreed upon.
--... ...--
Dale - WC7S in Wy

9802. RE: [AT_Sprint] ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-17 04:03:03 UTC
From: Mike Olbrisch
Topic: 9785 Message: 9802

Oops - sorry to the group. I keep forgetting that reply on this one is to the group - that was meant to go to Dale direct.

Got to find a way to flag this group.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Sunday, September 16, 2012 17:49
To: AT Sprint
Subject: RE: [AT_Sprint] ATS-4B

9803. RE: [QRP-L] For Sale ATS3b-water tight box

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-17 16:34:30 UTC
From: Dale Putnam
Topic: 9801 Message: 9803

It has been spoken for, twice. Thank you for the fast responses, and the bandwidth.Have a great day,

--... ...--
Dale - WC7S in Wy
> From: daleputnam@...
> To: at_sprint@yahoogroups.com; qrp-l@...
> Date: Mon, 17 Sep 2012 08:14:44 -0600
> Subject: [QRP-L] For Sale ATS3b-water tight box
>
>
> I have to let my water "proof" YELLOW cased ATS3b find another home to play in. Need to make some room, it appears. So this wonderfully visible, elements resistant, fully operational,exceeding specs 5 band 5 watt cw radio with rotary encoder and freq counter, all you need is a key, andearbuds, a battery and antenna.
> I know this little Yellow Fellow, can provide hours and hours of fun. Due to the size of the box, it will need to ship medium sized priority box, USPS. Asking $275 shipped to your own mailbox. as soon as payment is posted to Paypal or other arrangements are agreed upon.
> --... ...--
> Dale - WC7S in Wy
> _____
> QRP-L mailing list
> Home: http://mailman.qth.net/mailman/listinfo/qrp-l
> Help: http://mailman.qth.net/mmfaq.htm
> Post: mailto:QRP-L@...
>
> This list hosted by: http://www.qsl.net
> Please help support this email list: http://www.qsl.net/donate.html

9804. 300 Zeroes Book Review - AT Sprint 3A

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-17 19:48:43 UTC
From: thwitherspoon
Topic: 9804 Message: 9804

Hi, Group,

I just posted a review of "Three Hundred Zeroes" and an interview with Dennis K1YPP: http://qrper.com

There are several photos of his AT Sprint 3A in action. If you haven't read his book, I'd encourage you to check it out.

Cheers & 72,
Thomas
K4SWL

9805. Re: no sidetone on ATS-3B.1 initial bringup

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-18 00:09:54 UTC
From: scottg720
Topic: 9787 Message: 9805

Turned out to be a bad solder joint on R7 which explains the 5V (and not 2.5V) bias I was seeing on U3.

Thanks for the reply Dale.

73,
Scott

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Can you measure the resistance to ground from that pin? It may need to be connected to ground? Even tho the pin is supposed to be grounded on the board, maybe the holethrough plating has come loose, or not gotten installed correctly and there isn't a ground on it.
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: k1oa@...
> Date: Sun, 16 Sep 2012 23:17:30 +0000
> Subject: [AT_Sprint] Re: no sidetone on ATS-3B.1 initial bringup
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> After probing around a bit with my oscope I discovered that after shorting pin 4 (gnd) on U3 directly to ground not only do I hear the sidetone '8' come through the headphones, I also hear what sounds like normal receiver hiss.
>
>
>
> I've touched up the pin 4 solder joint a few times now but this doesn't seem to help.
>
>
>
> Thoughts on this situation?
>
>
>
> tnx and 73,
>
> Scott
>
>
>
> --- In AT_Sprint@yahoogroups.com, "scottg720" <k1oa@> wrote:
>
> >
>
> > I'm going through the initial bringup of an ATS-3B.1 main
>
> > board and not hearing the sidetone '8' come through the speaker.
>
> > I looked back through the archives and found
>
> >
>
> > http://groups.yahoo.com/group/AT_Sprint/message/4024
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> >
>
> > which was very helpful. I think I've been through all
>
> > suggested in this thread, but may have missed something.
>
> >
>
> > It appears that the sidetone is being generated and not
>
> > making it through the audio section (?).

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>
> > Observations with my board:
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> >
>
> > 1. on power up I hear a quick popping noise followed
>
> > by a short burst of white noise, followed by an 8
>
> > on the LED display, after which the LED goes blank
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> >
>
> > 2. The 5V and 3.5V regulators are working OK
>
> >
>
> > 3. TP1 reads 0V, R19 on the side away from TP1 reads 0V
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> >
>
> > 4. There are no observable bridges on any ICs
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>
> > 5. On power up my scope shows an audio square wave coming out of
>
> > pin 3 of U8 and it blinks an '8' in code! It also shows a lower
>
> > amplitude wave form on pin 3 of U4 blinking '8', although it
>
> > doesn't look like a square wave.
>
> >
>
> > 6. on U8 I have 5V on pins 2, 4, 10, 12, 14 and 0V on all others
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> >
>
> > 7. U7 voltages are 1:1.2, 2:1.2, 3:3.5, 4:5.0, 5:3.5, 6:2.5, 7:0
>
> > 8:1.7, 9:0, 10:0, 11:0, 12:0, 13:0, 14:3.5, 15:3.5, 16:0, 17:0.4,
>
> > 18:0, 19:0.4, 20: 0.8
>
> >

>
> > 8. U3 voltages are 5V on all but pin 4 which is 0V. Voltage table in the manual says only P8 should read 5V. Is this part of the problem?
>
> >
>
> > 9. U4 voltages are 1:5.0, 2:0, 3:floating, 4:5.0, 5:5.0, 6:3.5. Table
>
> > says P1 and P4 should be 2.2V, problem?
>
> >
>
> > 10. All ICs are oriented properly.
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>
> > Actions taken:
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> >
>
> > 1. touched up solder connections for U4, U5, U7 and U8, all components
>
> > that touch U3 and U4
>
> >
>
> > 2. touched up solder connections for audio connector
>
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>
> > Ideas?
>
> >
>
> > tnx and 73,
>
> > Scott, K1OA
>
> >
>

9806. Re: [AT_Sprint] ATS4 Sidetone

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-18 16:36:48 UTC
From: Steven Weber
Topic: 9785 Message: 9806

I don't see the sidetone level pot in the schematic, do I have an early version? Glad to know there's a level pot. I

Opps, the sidetone level pot was added to the A and B versions. Tacking another .1 ufd cap acorss C50 might do the trick for you.

Steve

9809. Re: [AT_Sprint] Where do I find instructions on how to flash the ATS4 with the new file?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-22 02:47:50 UTC
From: Johnny Matlock
Topic: 7902 Message: 9809

Hey Dale,
Well we got out butts kicked, 48 to 8!
Oh well they tried hard that's what matters most.
We have 2 grandsons on the same team, one a senior and one a junior, but
they both got to play!!!

Anyway here is the email from Steve.
I think you have a problem before you get any deeper, you have to have a
paralell port for the Ats rigs not a serial port.
The old paralell ports were the printer ports.
I am not sure how to create a paralell port on a win 7 machine?
They may have legacy cards to add them?
Let me know what you think.
My Cell number is 620-794-4101 and I am home all day tomorrow if you want
to talk about this in person. I am gonna drop my tower over and check it
out before FOX seaons opens again!!
72
Johnny AC0BQ

On Sat, Jan 7, 2012 at 1:03 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> > How about and overview on how to flash the chip?
> > Is there a folder in the files section that explains this?
>
> Lets start from scratch:
> 1. create a file folder someplace, My documents is okay place. You can
> name
> it MSP
> 2. down load the updated source code file ATS3B.s43 into that folder
> 3. From your CD, copy the file ATSB.prj (located in the MPS folder) into
> the
> folder created in step 1.
>
> 4. Instal FET_303.exe, this can be done from the CD
> 5. after instal is complete it will ask if you want to instal FET, leave
> box
> checked (yes, instal, that is the FET_R303u file)
> 6. Open IAR workbench. Programs > IAR systems > IAR ----MSP430
> kickstart--- > IAR Embedded Workbench (Icon with pliers and screwdriver,
> 4th
> down in list).

> 7. Click on "Open file" icon in tool bar
> 8. Find the file ATSB.prj in the folder you moved it to and click on it.
> 9. A project window will open in the workspace. Open the folder named
> "common sources" and the ATS4B.s43 source code file name should apper.
> Double click on that file name and a new window with the source code
> should
> open up.
> 10. Plug in your programming cable to the parallel port
> 11. turn on the rig and connect your programming cable to the programming
> port on the board. No need to solder anything in. Just tilt the SIP pins
> at
> an angle to ensure a good friction fit.
> 12. Click on the "Debugger" icon in the tool bar. This looks like a
> magnifying glass on the bottom row of the tool bar on the left side of the
> screen.
> 13. C-Spy window will open and the down load should begin. A progress bar
> will show up and clear when the down load is complete. Close the C-Spy
> window when done.
>
> If C-Spy can't find your device, an error message will come up and say
> "device not found or not supported". If this occurs, you might have a
> wiring
> error on your programming cable or didn't make good contact with the board.
>
> I tried doing all this from a kit CD to an old PC running Win98 in order
> to
> remember all the steps. For some reason the project and source code files
> got transfered as READ ONLY, so no changes can be made to the files. That
> might be able to be change using the file properties settings.
>
> Steve KD1JV
>
This is from the last page of the ats 4 b manual.
Addendum:
The MPS processor and firmware:
The MPS folder on the CD contains the firmware for the processor and the
tools you would need to work on it.
These files are include for those few who like to tinker with assembly
language or a curious to see what it takes
to make this tick. There is not much program memory left to add code too,
so any changes may have to come at
the expense of deleting features already in there.
The file FET_R303 is a set up program which will install the IAR assembler
for the MPS family of processors.
(Windows) This older version of the IDE will work with the project file
supplied. A newer and more complicated
IDE is also included, FET_451. This version will require creating a new
project and configuring the options to
assemble the source code properly.
The ATS4B.s43 file is the source code and can be read with a word processor.

If you locate the MPS folder in the C drive root, once you install the IAR assembler, click on “open project” and
then the ATSB project.
If you have a PC with parallel printer port, the processor can be re-programmed using this simple interface,
plugged into the programming port pins on the ATS4 circuit board, located under the display.
32

>
>
>

9810. RE: [AT_Sprint] Where do I find instructions on how to flash the ATS4 with the new file?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-22 03:07:53 UTC
From: Dale Putnam
Topic: 7902 Message: 9810

Hey Johnny, Well.. some days are not quite diamonds... But learning how to try hard the next time is good too.. and trying is what really counts.. you're exactly right.oh darn.. parallel... nuts. You told me that before too.. ok.. well the other machine has an issue with getting started... so it can't be used right now... wonder.. can this be done on a windows2000 machine? It has a printer port... I have the IAR workbench on this machine.. but it doesn't have a printer port.. only usb. I'll see about putting it on the other machine... I'll be working on this tomorrow.. so thank you for your ph number... Good Luck with the tower... be careful... sometimes they seem to get hungry.. and take a small bite of what ever is close... Thank you,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: jomatlock@...
Date: Fri, 21 Sep 2012 21:47:50 -0500
Subject: Re: [AT_Sprint] Where do I find instructions on how to flash the ATS4 with the new file?

Hey Dale,
Well we got out butts kicked, 48 to 8!
Oh well they tried hard that's what matters most.
We have 2 grandsons on the same team, one a senior and one a junior, but they both got to play!!!

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Johnny AC0BQ

On Sat, Jan 7, 2012 at 1:03 PM, Steven Weber <steve.kd1jv@...> wrote:

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> Is there a folder in the files section that explains this?

Lets start from scratch:

1. create a file folder someplace, My documents is okay place. You can name it MSP

2. down load the updated source code file ATS3B.s43 into that folder

3. From your CD, copy the file ATSB.prj (located in the MPS folder) into the folder created in step 1.

4. Instal FET_303.exe, this can be done from the CD

5. after instal is complete it will ask if you want to instal FET, leave box checked (yes, instal, that is the FET_R303u file)

6. Open IAR workbench. Programs > IAR systems > IAR ----MSP430 kickstart--- > IAR Embedded Workbench (Icon with pliers and screwdriver, 4th down in list).

7. Click on "Open file" icon in tool bar

8. Find the file ATSB.prj in the folder you moved it to and click on it.

9. A project window will open in the workspace. Open the folder named "common sources" and the ATS4B.s43 source code file name should apper. Double click on that file name and a new window with the source code should open up.

10. Plug in your programming cable to the parallel port

11. turn on the rig and connect your programming cable to the programming port on the board. No need to solder anything in. Just tilt the SIP pins at an angle to ensure a good friction fit.

12. Click on the "Debugger" icon in the tool bar. This looks like a magnifying glass on the bottom row of the tool bar on the left side of the screen.

13. C-Spy window will open and the down load should begin. A progress bar will show up and clear when the down load is complete. Close the C-Spy window when done.

If C-Spy can't find your device, an error message will come up and say

"device not found or not supported". If this occurs, you might have a wiring

error on your programming cable or didn't make good contact with the board.

I tried doing all this from a kit CD to an old PC running Win98 in order to

remember all the steps. For some reason the project and source code files

got transfered as READ ONLY, so no changes can be made to the files. That

might be able to be change using the file properties settings.

Steve KD1JV
This is from the last page of the ats 4 b manual.
Addendum:
The MPS processor and firmware:
The MPS folder on the CD contains the firmware for the processor and the tools you would need to work on it.

These files are include for those few who like to tinker with assembly language or a curious to see what it takes
to make this tick. There is not much program memory left to add code too, so any changes may have to come at

the expense of deleting features already in there.
The file FET_R303 is a set up program which will install the IAR assembler for the MPS family of processors.
(Windows) This older version of the IDE will work with the project file supplied. A newer and more complicated

IDE is also included, FET_451. This version will require creating a new project and configuring the options to
assemble the source code properly.
The ATS4B.s43 file is the source code and can be read with a word processor.

If you locate the MPS folder in the C drive root, once you install the IAR assembler, click on “open project” and
then the ATSB project.
If you have a PC with parallel printer port, the processor can be re-programmed using this simple interface,

plugged into the programming port pins on the ATS4 circuit board, located under the display.
32

9811. RE: [AT_Sprint] Where do I find instructions on how to flash the ATS4 with the new file?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-22 03:12:23 UTC
From: Dale Putnam
Topic: 7902 Message: 9811

Seems that both of us... forgot to look at the address line... sorry folks.

--... ...--
Dale - WC7S in Wy

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: jomatlock@...
Date: Fri, 21 Sep 2012 21:47:50 -0500
Subject: Re: [AT_Sprint] Where do I find instructions on how to flash the ATS4 with the new file?

Hey Dale,
Well we got out butts kicked, 48 to 8!
Oh well they tried hard that's what matters most.
We have 2 grandsons on the same team, one a senior and one a junior, but they both got to play!!!

Anyway here is the email from Steve.

I think you have a problem before you get any deeper, you have to have a paralell port for the Ats rigs not a serial port.
The old paralell ports were the printer ports.
I am not sure how to create a paralell port on a win 7 machine?

They may have legacy cards to add them?
Let me know what you think.
My Cell number is 620-794-4101 and I am home all day tomorrow if you want to talk about this in person. I am gonna drop my tower over and check it out before FOX seaons opens again!!

72
Johnny AC0BQ

On Sat, Jan 7, 2012 at 1:03 PM, Steven Weber <steve.kd1jv@gmail.com> wrote:

> How about and overview on how to flash the chip?

> Is there a folder in the files section that explains this?

Lets start from scratch:

1. create a file folder someplace, My documents is okay place. You can name

it MSP

2. down load the updated source code file ATS3B.s43 into that folder

3. From your CD, copy the file ATSB.prj (located in the MPS folder) into the folder created in step 1.

4. Instal FET_303.exe, this can be done from the CD

5. after instal is complete it will ask if you want to instal FET, leave box checked (yes, instal, that is the FET_R303u file)

6. Open IAR workbench. Programs > IAR systems > IAR ----MSP430 kickstart--- > IAR Embedded Workbench (Icon with pliers and screwdriver, 4th down in list).

7. Click on "Open file" icon in tool bar

8. Find the file ATSB.prj in the folder you moved it to and click on it.

9. A project window will open in the workspace. Open the folder named "common sources" and the ATS4B.s43 source code file name should apper. Double click on that file name and a new window with the source code should open up.

10. Plug in your programming cable to the parallel port

11. turn on the rig and connect your programming cable to the programming port on the board. No need to solder anything in. Just tilt the SIP pins at an angle to ensure a good friction fit.

12. Click on the "Debugger" icon in the tool bar. This looks like a magnifying glass on the bottom row of the tool bar on the left side of the screen.

13. C-Spy window will open and the down load should begin. A progress bar will show up and clear when the down load is complete. Close the C-Spy window when done.

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got transfered as READ ONLY, so no changes can be made to the files. That

might be able to be change using the file properties settings.

Steve KD1JV
This is from the last page of the ats 4 b manual.
Addendum:
The MPS processor and firmware:
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These files are include for those few who like to tinker with assembly language or a curious to see what it takes
to make this tick. There is not much program memory left to add code too, so any changes may have to come at

the expense of deleting features already in there.
The file FET_R303 is a set up program which will install the IAR assembler for the MPS family of processors.
(Windows) This older version of the IDE will work with the project file supplied. A newer and more complicated

IDE is also included, FET_451. This version will require creating a new project and configuring the options to
assemble the source code properly.
The ATS4B.s43 file is the source code and can be read with a word processor.

If you locate the MPS folder in the C drive root, once you install the IAR assembler, click on “open project” and
then the ATSB project.
If you have a PC with parallel printer port, the processor can be re-programmed using this simple interface,

plugged into the programming port pins on the ATS4 circuit board, located under the display.
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9812. Re: [AT_Sprint] Where do I find instructions on how to flash the ATS4 with the new file?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-22 03:17:23 UTC
From: Johnny Matlock
Topic: 7902 Message: 9812

Yes Group
I am very sorry about the foot ball game comments!
Johnny AC0BQ

On Fri, Sep 21, 2012 at 10:12 PM, Dale Putnam <daleputnam@...>wrote:

> **
>
>
> Seems that both of us... forgot to look at the address line...
> sorry folks.
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: jomatlock@...
> Date: Fri, 21 Sep 2012 21:47:50 -0500
> Subject: Re: [AT_Sprint] Where do I find instructions on how to flash the
> ATS4 with the new file?
>
>
> Hey Dale,
> Well we got out butts kicked, 48 to 8!
> Oh well they tried hard that's what matters most.
> We have 2 grandsons on the same team, one a senior and one a junior, but
> they both got to play!!!
>
> Anyway here is the email from Steve.
> I think you have a problem before you get any deeper, you have to have a
> paralell port for the Ats rigs not a serial port.
> The old paralell ports were the printer ports.
> I am not sure how to create a paralell port on a win 7 machine?
> They may have legacy cards to add them?
> Let me know what you think.
> My Cell number is 620-794-4101 and I am home all day tomorrow if you want
> to talk about this in person. I am gonna drop my tower over and check it
> out before FOX seaons opens again!!
> 72

> Johnny AC0BQ
>
> On Sat, Jan 7, 2012 at 1:03 PM, Steven Weber <steve.kd1jv@...>wrote:
>
> **
>
>
> > How about and overview on how to flash the chip?
> > Is there a folder in the files section that explains this?
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> Lets start from scratch:
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> folder created in step 1.
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> 4. Instal FET_303.exe, this can be done from the CD
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> box
> checked (yes, instal, that is the FET_R303u file)
> 6. Open IAR workbench. Programs > IAR systems > IAR ----MSP430
> kickstart--- > IAR Embedded Workbench (Icon with pliers and screwdriver,
> 4th
> down in list).
> 7. Click on "Open file" icon in tool bar
> 8. Find the file ATSB.prj in the folder you moved it to and click on it.
> 9. A project window will open in the workspace. Open the folder named
> "common sources" and the ATS4B.s43 source code file name should apper.
> Double click on that file name and a new window with the source code
> should
> open up.
> 10. Plug in your programming cable to the parallel port
> 11. turn on the rig and connect your programming cable to the programming
> port on the board. No need to solder anything in. Just tilt the SIP pins
> at
> an angle to ensure a good friction fit.
> 12. Click on the "Debugger" icon in the tool bar. This looks like a
> magnifying glass on the bottom row of the tool bar on the left side of the
> screen.
> 13. C-Spy window will open and the down load should begin. A progress bar
> will show up and clear when the down load is complete. Close the C-Spy
> window when done.
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> If C-Spy can't find your device, an error message will come up and say
> "device not found or not supported". If this occurs, you might have a
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> error on your programming cable or didn't make good contact with the board.

>
> I tried doing all this from a kit CD to an old PC running Win98 in order
> to
> remember all the steps. For some reason the project and source code files
> got transfered as READ ONLY, so no changes can be made to the files. That
> might be able to be change using the file properties settings.
>
> Steve KD1JV
>
> This is from the last page of the ats 4 b manual.
> Addendum:
> The MPS processor and firmware:
> The MPS folder on the CD contains the firmware for the processor and the
> tools you would need to work on it.
> These files are include for those few who like to tinker with assembly
> language or a curious to see what it takes
> to make this tick. There is not much program memory left to add code too,
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> the expense of deleting features already in there.
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> supplied. A newer and more complicated
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> project and configuring the options to
> assemble the source code properly.
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> assembler, click on “open project” and
> then the ATSB project.
> If you have a PC with parallel printer port, the processor can be
> re-programmed using this simple interface,
> plugged into the programming port pins on the ATS4 circuit board, located
> under the display.
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9813. Re: [AT_Sprint] Where do I find instructions on how to flash the ATS4 with the new file?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-22 03:27:38 UTC
From: Gil WA5YKK
Topic: 7902 Message: 9813

OK for the apologies, personally I was laughing so hard that I had to admire the teams involved! Never played football in high school, did marching band instead, and actually went to so many games as part of the "time off between halves" that I got really bored with it. Fascinating, how one little oddly shaped ball can cause so much work, et all, for a lot of exercise. The downhill part of it is that few people recall anything about any given game or year, yet the pro guys make tons of money!

Now, back to the ATS advice....

73's
Gil WA5YKK

On 9/21/2012 10:17 PM, Johnny Matlock wrote:
>
> Yes Group
> I am very sorry about the foot ball game comments!
> Johnny AC0BQ
>
> On Fri, Sep 21, 2012 at 10:12 PM, Dale Putnam <daleputnam@...
> <mailto:daleputnam@...>> wrote:
>
> Seems that both of us... forgot to look at the address line...
> sorry folks.
>
>
> --... ...-- Dale - WC7S in Wy
>
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>
> --... ...-- Dale - WC7S in Wy
>
> ---
> To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint@yahoogroups.com>
> From: jomatlock@... <mailto:jomatlock@...>
> Date: Fri, 21 Sep 2012 21:47:50 -0500
> Subject: Re: [AT_Sprint] Where do I find instructions on how to
> flash the ATS4 with the new file?
>
> Hey Dale,
> Well we got out butts kicked, 48 to 8!
> Oh well they tried hard that's what matters most.
> We have 2 grandsons on the same team, one a senior and one a
> junior, but they both got to play!!!

>
> Anyway here is the email from Steve.
> I think you have a problem before you get any deeper, you have to
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> The old paralell ports were the printer ports.
> I am not sure how to create a paralell port on a win 7 machine?
> They may have legacy cards to add them?
> Let me know what you think.
> My Cell number is 620-794-4101 <tel:620-794-4101> and I am home
> all day tomorrow if you want to talk about this in person. I am
> gonna drop my tower over and check it out before FOX seaons opens
> again!!
> 72
> Johnny AC0BQ
>
> On Sat, Jan 7, 2012 at 1:03 PM, Steven Weber
> <steve.kd1jv@... <mailto:steve.kd1jv@...>> wrote:
>
>

9814. FS: ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-22 06:35:59 UTC
From: k6jf_radio
Topic: 9814 Message: 9814

For sale is one of of my ATS-3B rigs. It is mounted in an Altoids tin. I am selling to fund either an ATS-4 or Weber Tribander.

This unit was assembled with a soldering iron as I was not ready to try solder paste at this point. It does have a couple solder pads on top of the board under the finals missing. They lift off so easy, but are not connected to anything. There is also a lifted pad on one of the band module pins that was bypassed using a jumper. It also has a phono jack that I used for frequency display with a QBSA at one time.

All bands output at least 4w into a dummy load with an input DC voltage in the 11v range. Refer to my photos for pictures and a document listing the mods done and output power. Not long ago on a Saturday afternoon/evening I made a QSO on each of the six bands.

http://groups.yahoo.com/group/AT_Sprint/photos/album/1354932441/pic/list

I am asking $130 for the rig plus shipping (Priority Mail) and insurance. Payment can be by Money Order or PayPal. If you choose PayPay I will ask an addition 3% to cover PayPal fees.

Please contact me off line if interested.

9815. Re: [AT_Sprint] FS: ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-22 15:06:25 UTC
From: Bob Confrey
Topic: 9814 Message: 9815

I have both an ATS-4b and a Tri-Bander I'm looking to sell. All working fine.....let me know if interested.....I've not listed either for sale as yet.....Since you are looking I thought I'd offer.....Bob.....WA1EDJ....Monroe,....Ga.....

On Saturday, September 22, 2012, k6jf_radio wrote:

> For sale is one of of my ATS-3B rigs. It is mounted in an Altoids tin. I
> am selling to fund either an ATS-4 or Weber Tribander.
>
> This unit was assembled with a soldering iron as I was not ready to try
> solder paste at this point. It does have a couple solder pads on top of the
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> pins that was bypassed using a jumper. It also has a phono jack that I used
> for frequency display with a QBSA at one time.
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> All bands output at least 4w into a dummy load with an input DC voltage in
> the 11v range. Refer to my photos for pictures and a document listing the
> mods done and output power. Not long ago on a Saturday afternoon/evening I
> made a QSO on each of the six bands.
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> I am asking $130 for the rig plus shipping (Priority Mail) and insurance.
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> addition 3% to cover PayPal fees.
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> Please contact me off line if interested.
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> Yahoo! Groups Links
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9816. RE: [AT_Sprint] FS: ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-22 16:18:58 UTC
From: James Rodenkirch
Topic: 9814 Message: 9816

Which bands does your tribander have in it, Bob??? 72, Jim Rodenkirch K9JWV
To: AT_Sprint@yahoogroups.com
From: bobc784@...
Date: Sat, 22 Sep 2012 11:06:25 -0400
Subject: Re: [AT_Sprint] FS: ATS-3B

I have both an ATS-4b and a Tri-Bander I'm looking to sell. All working fine.....let me know if interested.....I've not listed either for sale as yet.....Since you are looking I thought I'd offer.....Bob.....WA1EDJ....Monroe,....Ga.....

On Saturday, September 22, 2012, k6jf_radio wrote:
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This unit was assembled with a soldering iron as I was not ready to try solder paste at this point. It does have a couple solder pads on top of the board under the finals missing. They lift off so easy, but are not connected to anything. There is also a lifted pad on one of the band module pins that was bypassed using a jumper. It also has a phono jack that I used for frequency display with a QBSA at one time.

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Please contact me off line if interested.

Yahoo! Groups Links

http://groups.yahoo.com/group/AT_Sprint/

Individual Email | Traditional

http://groups.yahoo.com/group/AT_Sprint/join

(Yahoo! ID required)

AT_Sprint-digest@yahoogroups.com

AT_Sprint-fullfeatured@yahoogroups.com

AT_Sprint-unsubscribe@yahoogroups.com

http://docs.yahoo.com/info/terms/

9817. Re: FS: ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-22 18:47:49 UTC
From: k6jf_radio
Topic: 9814 Message: 9817

My ATS-3B has been sold.

9818. Re: QST QST QST Team members needed for NAQP (CW)Jan 12, 2013

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-23 00:02:14 UTC
From: Hank Greeb
Topic: 9818 Message: 9818

I'm starting early this time.

The North American QSO Party (NAQP) CW version will be held next year, Saturday, January 12, starting at 1800Z and ending Sunday, January 13, 0600Z. I'm looking for suckers.... errr..... volunteers for team(s) for this event.

Six of us suckers....errr, operators who had rigs designed by Steven, KD1JV, operated as a team in the August 2012 version. We had a ball! Set all sorts of new records for teams consisting of ATS, Weber Tribanders, and Mountain Top Radios. (Of course, to our knowledge, this was the first time anyone tried these rigs in this contest).

But, we REALLY did have fun. I'd like to expand the solicitation of suckers... errr...., volunteers who would like to join a team (or teams) for the upcoming January 2013 CW NAQP, who would run QRP with whatever kind of rig you prefer to use. If we have 5 rigs of the same kind, I'd make a team of those folks. If we have more than 5 rigs of the same kind, there'd be 2 (or more) teams. We can mix type of rigs for "full" teams of 5 each - it really doesn't matter.

The "interesting" part of NAQP, for the QRP op, is that it's a "semi-real" contest - not all blood and guts, and limited to 100 watts for entrants. (Folks tell me that some operators enter with "full gallons" to test their equipment, but these are a distinct minority. So, rigs like the AT-Sprint or similar with a pair of '602's or '612's for first mixer and product detectors won't suffer from large signals overwhelming the front end.

If we'd have 10 or more QRPers enter we'd set a new (recent, at least) record for QRP ops in the event.

So, if you think you might be available for part or all of the period of 1800Z, 01/12/13 to 0600Z 01/13/13 please let me know. You needn't commit completely, but I'd like to start a list of folks who "probably" could join such an endeavor.

72/73 de n8xx Hg

9819. RE: [AT_Sprint] Re: QST QST QST Team members needed for NAQP (CW)Jan 12, 2013

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-23 00:07:15 UTC
From: Dale Putnam
Topic: 9818 Message: 9819

Count me in.... I'll be using the KD1JV rig(s) .... (one or more of them) at hand. Sorry, I don't want to commit to which one just yet.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: n8xx@...
Date: Sat, 22 Sep 2012 20:02:14 -0400
Subject: [AT_Sprint] Re: QST QST QST Team members needed for NAQP (CW)Jan 12, 2013

I'm starting early this time.

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So, if you think you might be available for part or all of the period of 1800Z, 01/12/13 to 0600Z 01/13/13 please let me know.

You needn't commit completely, but I'd like to start a list of folks who "probably" could join such an endeavor.

72/73 de n8xx Hg

9820. Re: [AT_Sprint] Re: QST QST QST Team members needed for NAQP (CW)Jan 12, 2013

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-23 00:25:13 UTC
From: Hank Greeb
Topic: 9818 Message: 9820

GRR8! You actually don't need to "commit" to any particular KD1JV rig. I'd presume we'd have a mixture of KD1LV's rigs like we did in August. I see you sold your ATS-3 - didn't you?

72/73 de n8xx Hg

On 9/22/2012 8:07 PM, Dale Putnam wrote:
>
>
> <snip>
> Sorry, I don't want to commit to which one just yet.
> <snip>

9821. ATS-4B Help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-23 01:55:54 UTC
From: jhg40earthlinknet
Topic: 9821 Message: 9821

I Recently acquired an ATS-4B. It has no RF output on transmit that I can detect with a watt meter. When I key the rig I can hear tone on the appropriate frequency on a second receiver. However the tone is a steady tone with clicks where you would expect dits and dahs.

From that feeble description, anyone have an idea where to start looking for the problem? The keying circuit? The RF finals?

Usually the more I fix stuff the more screwed up it gets. We'll see what I can do to this thing.

I will love this thing if I can get it working. Receiver is great so far.

Thanks for any advice.

John
WB6HVH

9822. RE: [AT_Sprint] ATS-4B Help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-23 13:15:39 UTC
From: Dale Putnam
Topic: 9821 Message: 9822

Hi John, Sounds like you may have issues in the AC02 ic.. or the finals.. the driver, finals or the dc path to them.Checking with a vom will tell the tail for dc.. and give a good indication of ic health too.Good Luck,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: jgoodsell@...
Date: Sun, 23 Sep 2012 01:55:54 +0000
Subject: [AT_Sprint] ATS-4B Help

I Recently acquired an ATS-4B. It has no RF output on transmit that I can detect with a watt meter. When I key the rig I can hear tone on the appropriate frequency on a second receiver. However the tone is a steady tone with clicks where you would expect dits and dahs.

From that feeble description, anyone have an idea where to start looking for the problem? The keying circuit? The RF finals?

Usually the more I fix stuff the more screwed up it gets. We'll see what I can do to this thing.

I will love this thing if I can get it working. Receiver is great so far.

Thanks for any advice.

John

WB6HVH

9823. Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-26 03:03:47 UTC
From: wmorrill@montana.edu
Topic: 9449 Message: 9823

Steve-
I am having trouble with a tribander, maybe you will have suggestions.

It is set up for 80, 40, 30 meters, for band A, B, and C, respectively.

Problem: when I switch to 80, the dial flashes between 80 and 560.0, and doesn't stabilize to show the operating frequency.

I can hear signals during the split seconds between the flashes.

I have gone through the reset procedure several times, and have similar results. It appears that band selection procedure is OK, and the 40 and 30 bands seem fine. However, when I switch to 80, the problem occurs.

I hope the MEGA48 isn't faulty.

40 is working great, over 5 W output. 30 output is low, am still working on that.

I think a black bear ate someone in a tent in the Bob Marshal this summer. Lots of wild fires here, so no SOTA for me in the Gallatin Range this fall.

Wendell

9824. RE: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-26 18:23:44 UTC
From: Dale Putnam
Topic: 9449 Message: 9824

Hi Wendell, The bandswitch for the Tribander... yours.How are the bands arranged when, looking at the front of the radio, and the toggle of the switch is to the far left = what band"? Centered = what band ?... and to the far right = what band? I have been trying to get mine to do what you have, and can't figure it out...

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: wmorrill@...
Date: Tue, 25 Sep 2012 21:03:47 -0600
Subject: [AT_Sprint] Weber Tribander kit help

Steve-

I am having trouble with a tribander, maybe you will have suggestions.

It is set up for 80, 40, 30 meters, for band A, B, and C, respectively.

Problem: when I switch to 80, the dial flashes between 80 and 560.0, and

doesn't stabilize to show the operating frequency.

I can hear signals during the split seconds between the flashes.

I have gone through the reset procedure several times, and have similar

results. It appears that band selection procedure is OK, and the 40 and

30 bands seem fine. However, when I switch to 80, the problem occurs.

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on that.

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Lots of wild fires here, so no SOTA for me in the Gallatin Range this

fall.

Wendell

9825. RE: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-26 19:05:29 UTC
From: wmorrill@montana.edu
Topic: 9449 Message: 9825

Dale- my toggle switch moves vertically, not horizontally. Center position is for band A, or 80m. Upper is for band b, or 40m. Lower position is for band C, or 30 m. When I assign bands for the switch positions, everything looks fine. The little switch below the dial moves through the bands OK, and the dit from the keyer functions OK.

I have reheated the solder pads, and checked the toroids and trimmer capacitor pads with a vom.

Wendell

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> Hi Wendell, The bandswitch for the Tribander... yours.How are the bands
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> have, and can't figure it out...
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> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: wmorrill@...
> Date: Tue, 25 Sep 2012 21:03:47 -0600
> Subject: [AT_Sprint] Weber Tribander kit help
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9826. RE: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-26 19:50:57 UTC
From: Dale Putnam
Topic: 9449 Message: 9826

Hi Wendell, Take a close look at the resistors on the display board, R41, 42, & 43... and the connections to the wires that go to the bandswitch.It appears to be switching to the proper band, but not settling.... this may very well be a Steve ?? after all.Can you also take a very very close look, or possibly reheat pin 28 of U6? I use a X30 glass... to see, with a whole lotta light.
--... ...--
Dale - WC7S in Wy
To: AT_Sprint@...m
From: wmorrill@...
Date: Wed, 26 Sep 2012 13:05:29 -0600
Subject: RE: [AT_Sprint] Weber Tribander kit help

Dale- my toggle switch moves vertically, not horizontally. Center

position is for band A, or 80m. Upper is for band b, or 40m. Lower

position is for band C, or 30 m. When I assign bands for the switch

positions, everything looks fine. The little switch below the dial moves

through the bands OK, and the dit from the keyer functions OK.

I have reheated the solder pads, and checked the toroids and trimmer

capacitor pads with a vom.

Wendell

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> Hi Wendell, The bandswitch for the Tribander... yours.How are the bands

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> the far right = what band? I have been trying to get mine to do what you

> have, and can't figure it out...

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> --... ...--

> Dale - WC7S in Wy

> To: AT_Sprint@yahoogroups.com

> From: wmorrill@...

> Date: Tue, 25 Sep 2012 21:03:47 -0600

> Subject: [AT_Sprint] Weber Tribander kit help

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9827. RE: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-26 21:15:32 UTC
From: wmorrill@montana.edu
Topic: 9449 Message: 9827

Dale-
I reflowed the solder on R1, R2, and R3.
Removed and reinserted U6, looks like solder has flowed from the underside of the board to the top at pin 28.
Have gone through the restart sequence at least a half dozen times. Still have the problem.

I am using a bausch and lomb variable power dissecting scope. There is room to solder and plenty of light.

Will need to think about this for a while. Sometimes solutions appear overnight.

Thanks for the help.

Wendell

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> Hi Wendell, Take a close look at the resistors on the display board, R41,
> 42, & 43... and the connections to the wires that go to the bandswitch.It
> appears to be switching to the proper band, but not settling.... this may
> very well be a Steve ?? after all.Can you also take a very very close
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> whole lotta light.
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> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: wmorrill@...
> Date: Wed, 26 Sep 2012 13:05:29 -0600
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>> To: AT_Sprint@yahoogroups.com
>
>> From: wmorrill@...
>
>> Date: Tue, 25 Sep 2012 21:03:47 -0600
>
>> Subject: [AT_Sprint] Weber Tribander kit help
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9828. RE: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-26 21:36:16 UTC
From: Dale Putnam
Topic: 9449 Message: 9828

Hey Windell, If you want, send that to me, I'll get it going for you, and ship it back, k?All you would be out of pocket is the shipping. And that will be about 8 for Priority USPS... Dale - WC7S 5503 N. College Dr.Cheyenne, Wy, 82009 k?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: wmorrill@...
Date: Wed, 26 Sep 2012 15:15:32 -0600
Subject: RE: [AT_Sprint] Weber Tribander kit help

Dale-

I reflowed the solder on R1, R2, and R3.

Removed and reinserted U6, looks like solder has flowed from the underside

of the board to the top at pin 28.

Have gone through the restart sequence at least a half dozen times. Still

have the problem.

I am using a bausch and lomb variable power dissecting scope. There is

room to solder and plenty of light.

Will need to think about this for a while. Sometimes solutions appear

overnight.

Thanks for the help.

Wendell

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> Hi Wendell, Take a close look at the resistors on the display board, R41,

> 42, & 43... and the connections to the wires that go to the bandswitch.It

> appears to be switching to the proper band, but not settling.... this may

> very well be a Steve ?? after all.Can you also take a very very close

> look, or possibly reheat pin 28 of U6? I use a X30 glass... to see, with a

> whole lotta light.

> --... ...--

> Dale - WC7S in Wy

> To: AT_Sprint@yahoogroups.com

> From: wmorrill@...

> Date: Wed, 26 Sep 2012 13:05:29 -0600

> Subject: RE: [AT_Sprint] Weber Tribander kit help

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>> To: AT_Sprint@yahoogroups.com

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>> Date: Tue, 25 Sep 2012 21:03:47 -0600

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>> Subject: [AT_Sprint] Weber Tribander kit help

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9829. RE: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-26 21:57:56 UTC
From: wmorrill@montana.edu
Topic: 9449 Message: 9829

Dale-
Thanks for the offer. I will work on it for a few days yet, then will let
you know.
Wendell

>
> Hey Windell, If you want, send that to me, I'll get it going for you, and
> ship it back, k?All you would be out of pocket is the shipping. And that
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> To: AT_Sprint@yahoogroups.com
> From: wmorrill@...
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9830. RE: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-26 22:11:05 UTC
From: Jay
Topic: 9449 Message: 9830

Dale and Wendell,

I am following the mail on this issue. If I can help, please let me know.

Wendell's switch arrangement is similar to mine except his switch is rotated 90 degrees CW from mine. My bands are 80, 40, and 20 while Wendell's are 80, 40, and 30.

I'll continue to monitor what transpires.

Regards and 73!

Jay
AJ4AY
Mobile, AL

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of wmorrill@...
Sent: Wednesday, September 26, 2012 4:58 PM
To: AT_Sprint@yahoogroups.com
Subject: RE: [AT_Sprint] Weber Tribander kit help

Dale-
Thanks for the offer. I will work on it for a few days yet, then will let you know.
Wendell

>
> Hey Windell, If you want, send that to me, I'll get it going for you, and
> ship it back, k?All you would be out of pocket is the shipping. And that
> will be about 8 for Priority USPS... Dale - WC7S 5503 N. College
> Dr.Cheyenne, Wy, 82009 k?
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>
> From: wmorrill@... <mailto:wmorrill%40montana.edu>
> Date: Wed, 26 Sep 2012 15:15:32 -0600
> Subject: RE: [AT_Sprint] Weber Tribander kit help
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> Dale-
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> I reflowed the solder on R1, R2, and R3.
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> Removed and reinserted U6, looks like solder has flowed from the underside
>
> of the board to the top at pin 28.
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> Have gone through the restart sequence at least a half dozen times. Still
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> have the problem.
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> I am using a bausch and lomb variable power dissecting scope. There is
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> room to solder and plenty of light.
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> Will need to think about this for a while. Sometimes solutions appear
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> overnight.
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> Thanks for the help.
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> Wendell
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>> Hi Wendell, Take a close look at the resistors on the display board,
>> R41,
>
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>> bandswitch.It
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>> a
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>> Dale - WC7S in Wy
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>> To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>
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>>> To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>
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>>> From: wmorrill@... <mailto:wmorrill%40montana.edu>
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>>> Date: Tue, 25 Sep 2012 21:03:47 -0600
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>>> Subject: [AT_Sprint] Weber Tribander kit help
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9831. Re: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-26 23:22:19 UTC
From: Johnny Matlock
Topic: 9449 Message: 9831

Ge guys:
This may help a little. I had a problem with undrestanding where band A was to be assigned while setting my rig up. If you read the yellow high lighted text on the top of page 14 it tells you the lowest frequecy band must be in the A posistion. I am almost sure posistion A on the switch is in the center or neutral
Followed by B at one end and then C at the other end.
After figuring this out I went back into setup and told the processor which band was where, but starting with the low band, or as on mine 80m and working my way up. My tri bander then switched fine from band to band.
Just a for what it is worth?
72
Johnny AC0Bq

On Wednesday, September 26, 2012, Dale Putnam wrote:

> **
>
>
> Hi Wendell,
> Take a close look at the resistors on the display board, R41, 42, &
> 43... and the connections to the wires that go to the bandswitch.
> It appears to be switching to the proper band, but not settling.... this
> may very well be a Steve ?? after all.
> Can you also take a very very close look, or possibly reheat pin 28 of U6?
> I use a X30 glass... to see, with a whole lotta light.
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint@yahoogroups.com');>
> From: wmorrill@... <javascript:_e({}, 'cvml',
> 'wmorrill@montana.edu');>
> Date: Wed, 26 Sep 2012 13:05:29 -0600
> Subject: RE: [AT_Sprint] Weber Tribander kit help
>
>
> Dale- my toggle switch moves vertically, not horizontally. Center
> position is for band A, or 80m. Upper is for band b, or 40m. Lower
> position is for band C, or 30 m. When I assign bands for the switch
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> capacitor pads with a vom.
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> > Subject: [AT_Sprint] Weber Tribander kit help
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9832. WTB MTR for SOTA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-26 23:33:26 UTC
From: steve_wg0at
Topic: 9832 Message: 9832

Goats are aching for me to get a MTR so they don't have to carry other 'heavy radios' ...anyone have one for sale???

Steve wGOAT

9833. RE: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-27 00:28:15 UTC
From: Jay
Topic: 9449 Message: 9833

Johnny and the group,

The only mistake that I made in my tribander build was the wiring of the band switch. For whatever reason (simple mind that I have), I tend to believe pictures before the writing.

The first page of the tribander manual shows bands (L to R) of 40m, 30m, and 17m. Unless the switch wiring is changed from the instructions of page 14, this band order is very wrong.

After playing with my tribander (Originally, it was wrong!!!), band A is the center switch position, band B is the left switch position, and band C is the right switch position. Once I got this ordering straight, the tribander has been a happy camper ever since.

Regards,

Jay
AJ4AY
Mobile, AL

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Johnny Matlock
Sent: Wednesday, September 26, 2012 6:22 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Weber Tribander kit help

Ge guys:

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It appears to be switching to the proper band, but not settling.... this may very well be a Steve ?? after all.
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--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: wmorrill@...
Date: Wed, 26 Sep 2012 13:05:29 -0600
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Wendell

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> To: AT_Sprint@yahoogroups.com
> From: wmorrill@...
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9834. First ATS Sprint Soapbox link

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-27 00:35:20 UTC
From: f_skinner
Topic: 9834 Message: 9834

I seemed to have lost the link to the results/soapbox for the first ATS Sprint. Could someone pass that to me?

Thanks,

Frank
K0JQZ
f_skinner@yahoo.com

9835. RE: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-27 00:58:47 UTC
From: Dale Putnam
Topic: 9449 Message: 9835

And that is the only specific area or component that causes an issue, with some. Someone (likely Steve) that the photo was in error... I read that somewhere, as to the bandswitch.Attention or focus to that specific area seems to be helpful. Johnny and Jay both found the way around the issue. Oh.. and one more note... I did take only a minute or two, to see if I could get the bandswitch to go from low to high.. or high to low... and that didn't work... it may be possible if someone wants to spend a whole lotta time on it.. I don't. And.. it may not be possible.. no matter how much time is spent. Have a great day,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: aj4ay@...
Date: Wed, 26 Sep 2012 19:28:15 -0500
Subject: RE: [AT_Sprint] Weber Tribander kit help

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Sent: Wednesday, September 26, 2012 6:22 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Weber Tribander kit help Ge guys:This may help a little. I had a problem with undrestanding where band A was to be assigned while setting my rig up. If you read the yellow high lighted text on the top of page 14 it tells you the lowest frequecy band must be in the A posistion. I am almost sure posistion A on the switch is in the center or neutral Followed by B at one end and then C at the other end.After figuring this out I went back into setup and told the processor which band was where, but starting with the low band, or as on mine 80m and working my way up. My tri bander then switched fine from band to band.Just a for what it is worth?72Johnny AC0Bq

On Wednesday, September 26, 2012, Dale Putnam wrote: Hi Wendell,
Take a close look at the resistors on the display board, R41, 42, & 43... and the connections to the wires that go to the bandswitch.
It appears to be switching to the proper band, but not settling.... this may very well be a Steve ?? after all.
Can you also take a very very close look, or possibly reheat pin 28 of U6? I use a X30 glass... to see, with a whole lotta light.

--... ...-- Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: wmorrill@montana.edu
Date: Wed, 26 Sep 2012 13:05:29 -0600
Subject: RE: [AT_Sprint] Weber Tribander kit help

Dale- my toggle switch moves vertically, not horizontally. Center position is for band A, or 80m. Upper is for band b, or 40m. Lower position is for band C, or 30 m. When I assign bands for the switch positions, everything looks fine. The little switch below the dial moves through the bands OK, and the dit from the keyer functions OK.

I have reheated the solder pads, and checked the toroids and trimmer capacitor pads with a vom.

Wendell

>
> Hi Wendell, The bandswitch for the Tribander... yours.How are the bands
> arranged when, looking at the front of the radio, and the toggle of the
> switch is to the far left = what band"? Centered = what band ?... and to
> the far right = what band? I have been trying to get mine to do what you
> have, and can't figure it out...
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: wmorrill@...
> Date: Tue, 25 Sep 2012 21:03:47 -0600
> Subject: [AT_Sprint] Weber Tribander kit help
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> Steve-
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> I am having trouble with a tribander, maybe you will have suggestions.
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> It is set up for 80, 40, 30 meters, for band A, B, and C, respectively.
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> Problem: when I switch to 80, the dial flashes between 80 and 560.0, and
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> doesn't stabilize to show the operating frequency.
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> I can hear signals during the split seconds between the flashes.
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> I have gone through the reset procedure several times, and have similar
>
> results. It appears that band selection procedure is OK, and the 40 and
>
> 30 bands seem fine. However, when I switch to 80, the problem occurs.
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> I hope the MEGA48 isn't faulty.
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> 40 is working great, over 5 W output. 30 output is low, am still working
>
> on that.
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>
> I think a black bear ate someone in a tent in the Bob Marshal this summer.
>
> Lots of wild fires here, so no SOTA for me in the Gallatin Range this
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> fall.
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> Wendell
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9836. Re: [AT_Sprint] First ATS Sprint Soapbox link

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-27 04:44:48 UTC
From: Lee Hiers
Topic: 9834 Message: 9836

On Wed, Sep 26, 2012 at 8:35 PM, f_skinner <f_skinner@...> wrote:

I seemed to have lost the link to the results/soapbox for the first ATS
> Sprint. Could someone pass that to me?
>
No Frank, you didn't lose the link, it was never published!

But, thanks to your gentle reminder, I got off my duff and put the
finishing touches on the report tonight.

Go to http://ats-sprint.blogspot.com for the write-up, and click on the
"Results" tab for details.

Thanks for participating, and look for an announcement here for the next
running of the ATS QSO Party!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

9837. 1st ATS QSO Party Results

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-27 04:48:03 UTC
From: Lee Hiers
Topic: 9837 Message: 9837

I finally got the results published.

Highs - lots of fun with Steve Weber's rigs!

Lows - poor conditions

Thanks to all who participated, and we'll run another edition before too long - watch here on the list for an announcement!

Check out the results at http://ats-sprint.blogspot.com and click on the Results tabs for the full detail and soapbox.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

9838. Re: [AT_Sprint] WTB MTR for SOTA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-27 12:37:00 UTC
From: Randy Moore
Topic: 9832 Message: 9838

Steve,

I'll let the MTR go. Would you like to see some pictures? It's mounted in an Altoids box (of course!). Was working fine when I last used it about 2 months ago. I built it by hand-soldering the SMD's. What else would you like to know? How about $115 shipped to you. I'd like payment by PayPal, but other is possible. I'm in the process of moving, but I know where I put the MTR, and can probably ship it tomorrow if you can do PayPal today.

Just remembered that I put a couple of pictures on the Yahoo Group site. They're in the Photo section in the folder "MTR KS4L". This link might take you there:

http://groups.yahoo.com/group/AT_Sprint/photos/album/1523572069/pic/list

Let me know what you think.

Looking forward to QSOing you and the goats again soon!

73,
Randy, KS4L

On Sep 26, 2012, at 6:33 PM, "steve_wg0at" <qrp.wg0at@...> wrote:

> Goats are aching for me to get a MTR so they don't have to carry other 'heavy radios' ...anyone have one for sale???
>
> Steve wGOAT
>
>

9839. RE: [AT_Sprint] 1st ATS QSO Party Results

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-28 02:29:54 UTC
From: Dale Putnam
Topic: 9837 Message: 9839

Great job, Lee... and a whole lotta fun for us all. Thank you for all that hard work too. What a bunch of fun was had by all.. Now the burning question.. when can we do it again??? Note to self.... charge batteries....

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: lee.hiers@...
Date: Thu, 27 Sep 2012 00:48:03 -0400
Subject: [AT_Sprint] 1st ATS QSO Party Results

I finally got the results published.
Highs - lots of fun with Steve Weber's rigs!
Lows - poor conditions
Thanks to all who participated, and we'll run another edition before too long - watch here on the list for an announcement!

Check out the results at http://ats-sprint.blogspot.com and click on the Results tabs for the full detail and soapbox.
73 de Lee

--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to http://www.aa4ga.com/p/qrp-dxcc.html for more info!

9840. Re: [AT_Sprint] 1st ATS QSO Party Results

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-28 02:38:50 UTC
From: Frank Skinner
Topic: 9837 Message: 9840

Yes Lee, it was a lot of fun. Thank you for posting the results and taking time to compile all the entries. I look forward to the next time.

Frank
K0JQZ

On Sep 27, 2012, at 20:29, Dale Putnam <daleputnam@...> wrote:

> Great job, Lee... and a whole lotta fun for us all.
> Thank you for all that hard work too.
>
> What a bunch of fun was had by all..
>
> Now the burning question.. when can we do it again???
>
> Note to self.... charge batteries....
>
>
> --... ...-- Dale - WC7S in Wy
>
> To: AT_Sprint@yahoogroups.com
> From: lee.hiers@...
> Date: Thu, 27 Sep 2012 00:48:03 -0400
> Subject: [AT_Sprint] 1st ATS QSO Party Results
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> I finally got the results published.
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> Highs - lots of fun with Steve Weber's rigs!
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> Thanks to all who participated, and we'll run another edition before too long - watch here on the list for an announcement!
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> Check out the results at http://ats-sprint.blogspot.com and click on the Results tabs for the full detail and soapbox.
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to http://www.aa4ga.com/p/qrp-dxcc.html for more info!
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9841. RE: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-29 02:00:19 UTC
From: wmorrill@montana.edu
Topic: 9449 Message: 9841

Am still working on the tribander kit.... removed ICs and inserted them again to be sure no pins were folded under... wish I would have used machined pins instead of the cheap sockets...double checked the wires to be sure they were correct... reflowed most of the solder...checked for unsoldered joints and solder bridges by using a good microscope....

I checked the voltage on some of the ICs. The diagram shows the AD9834 as U8, U8 is LM386.... incorrect readings showed up on the U2 mixer, pins 5, 6, and 7 were 0V, instead of 3.9, 4.5, and 4.3, respectively. Maybe that narrows things down a bit, have to look for a short or faulty component somewhere in the circuits.

Finally, I looked at the 1K resistor that is added to the bottom of the board.... between pins 1 and 4 of U3. Well, I counted wrong, and didn't see that the pad for pin 1 is square. I had put the resistor on pin 2 and the pad below U3. Easy to make this mistake, suggest that the instructions should note that pad for pin 1 is square. Maybe this had been the source of trouble.

Thanks to everyone who is following my blunders.

Wendell
N7WM

> Dale-
> Thanks for the offer. I will work on it for a few days yet, then will let
> you know.
> Wendell
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>>
>> Hey Windell, If you want, send that to me, I'll get it going for you,
>> and
>> ship it back, k?All you would be out of pocket is the shipping. And that
>> will be about 8 for Priority USPS... Dale - WC7S 5503 N. College
>> Dr.Cheyenne, Wy, 82009 k?
>>
>> --... ...--
>> Dale - WC7S in Wy
>> To: AT_Sprint@yahoogroups.com
>> From: wmorrill@...
>> Date: Wed, 26 Sep 2012 15:15:32 -0600
>> Subject: RE: [AT_Sprint] Weber Tribander kit help
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>> Dale-
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>> I reflowed the solder on R1, R2, and R3.
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>> Removed and reinserted U6, looks like solder has flowed from the
>> underside
>>
>> of the board to the top at pin 28.
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>> Have gone through the restart sequence at least a half dozen times.
>> Still
>>
>> have the problem.
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>> I am using a bausch and lomb variable power dissecting scope. There is
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>> room to solder and plenty of light.
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>> Will need to think about this for a while. Sometimes solutions appear
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>> overnight.
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>> Thanks for the help.
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>> Wendell
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>>> Hi Wendell, Take a close look at the resistors on the display board,
>>> R41,
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>>> 42, & 43... and the connections to the wires that go to the
>>> bandswitch.It
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>>> appears to be switching to the proper band, but not settling.... this
>>> may
>>
>>> very well be a Steve ?? after all.Can you also take a very very close
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>>> look, or possibly reheat pin 28 of U6? I use a X30 glass... to see,
>>> with
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>>> whole lotta light.
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>>> Dale - WC7S in Wy
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>>> To: AT_Sprint@yahoogroups.com
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>>> Dale- my toggle switch moves vertically, not horizontally.
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>>> position is for band A, or 80m. Upper is for band b, or 40m. Lower

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>>> position is for band C, or 30 m. When I assign bands for the switch
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9842. Re: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-29 02:09:36 UTC
From: Johnny Matlock
Topic: 9449 Message: 9842

Hello Wendell
I have to ask after all of this suspense, did this fix the little rig??
Thanks 73
Johnny AC0BQ

On Fri, Sep 28, 2012 at 9:00 PM, <wmorrill@...> wrote:

> **
>
>
> Am still working on the tribander kit.... removed ICs and inserted them
> again to be sure no pins were folded under... wish I would have used
> machined pins instead of the cheap sockets...double checked the wires to
> be sure they were correct... reflowed most of the solder...checked for
> unsoldered joints and solder bridges by using a good microscope....
>
> I checked the voltage on some of the ICs. The diagram shows the AD9834 as
> U8, U8 is LM386.... incorrect readings showed up on the U2 mixer, pins 5,
> 6, and 7 were 0V, instead of 3.9, 4.5, and 4.3, respectively. Maybe that
> narrows things down a bit, have to look for a short or faulty component
> somewhere in the circuits.
>
> Finally, I looked at the 1K resistor that is added to the bottom of the
> board.... between pins 1 and 4 of U3. Well, I counted wrong, and didn't
> see that the pad for pin 1 is square. I had put the resistor on pin 2 and
> the pad below U3. Easy to make this mistake, suggest that the
> instructions should note that pad for pin 1 is square. Maybe this had
> been the source of trouble.
>
> Thanks to everyone who is following my blunders.
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> Wendell
> N7WM
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> > Dale-
> > Thanks for the offer. I will work on it for a few days yet, then will let
> > you know.
> > Wendell
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> >>
> >> Hey Windell, If you want, send that to me, I'll get it going for you,
> >> and

> >> ship it back, k?All you would be out of pocket is the shipping. And that
> >> will be about 8 for Priority USPS... Dale - WC7S 5503 N. College
> >> Dr.Cheyenne, Wy, 82009 k?
> >>
> >> --... ...--
> >> Dale - WC7S in Wy
> >> To: AT_Sprint@yahoogroups.com
> >> From: wmorrill@...
> >> Date: Wed, 26 Sep 2012 15:15:32 -0600
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> >>>> Hi Wendell, The bandswitch for the Tribander... yours.How are the
> >>>> bands
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> >>>> arranged when, looking at the front of the radio, and the toggle of
> >>>> the
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> >>>> switch is to the far left = what band"? Centered = what band ?... and
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> >>>> to
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> >>>> the far right = what band? I have been trying to get mine to do what
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> >>>> you
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> >>>> have, and can't figure it out...
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> >>>> --... ...--
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> >>>> Dale - WC7S in Wy
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> >>
> >>>> To: AT_Sprint@yahoogroups.com
> >>
> >>>
> >>
> >>>> From: wmorrill@...
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> >>>> Date: Tue, 25 Sep 2012 21:03:47 -0600
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> >>>> Subject: [AT_Sprint] Weber Tribander kit help
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> >>>> I am having trouble with a tribander, maybe you will have suggestions.
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> >>>> It is set up for 80, 40, 30 meters, for band A, B, and C,
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> >>>> Problem: when I switch to 80, the dial flashes between 80 and 560.0,
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> >>>> doesn't stabilize to show the operating frequency.
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> >>>> I can hear signals during the split seconds between the flashes.
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> >>>> I have gone through the reset procedure several times, and have
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> >>>> results. It appears that band selection procedure is OK, and the 40
> >>>> and
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> >>>> 30 bands seem fine. However, when I switch to 80, the problem occurs.
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> >>>> I hope the MEGA48 isn't faulty.
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> >>>> 40 is working great, over 5 W output. 30 output is low, am still
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> >>>> working

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> >>>> I think a black bear ate someone in a tent in the Bob Marshal this
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> >>>> summer.
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> >>>> Lots of wild fires here, so no SOTA for me in the Gallatin Range this
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9843. Re: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-09-29 03:07:04 UTC
From: wmorrill@montana.edu
Topic: 9449 Message: 9843

Johnny=
Sorry, still no joy. Thanks for your interest, still might need to send
it to Dale.
73
Wendell

> Hello Wendell
> I have to ask after all of this suspense, did this fix the little rig??
> Thanks 73
> Johnny AC0BQ
>
> On Fri, Sep 28, 2012 at 9:00 PM, <wmorrill@...> wrote:
>
>> **
>>
>>
>> Am still working on the tribander kit.... removed ICs and inserted them
>> again to be sure no pins were folded under... wish I would have used
>> machined pins instead of the cheap sockets...double checked the wires to
>> be sure they were correct... reflowed most of the solder...checked for
>> unsoldered joints and solder bridges by using a good microscope....
>>
>> I checked the voltage on some of the ICs. The diagram shows the AD9834
>> as
>> U8, U8 is LM386.... incorrect readings showed up on the U2 mixer, pins
>> 5,
>> 6, and 7 were 0V, instead of 3.9, 4.5, and 4.3, respectively. Maybe that
>> narrows things down a bit, have to look for a short or faulty component
>> somewhere in the circuits.
>>
>> Finally, I looked at the 1K resistor that is added to the bottom of the
>> board.... between pins 1 and 4 of U3. Well, I counted wrong, and didn't
>> see that the pad for pin 1 is square. I had put the resistor on pin 2
>> and
>> the pad below U3. Easy to make this mistake, suggest that the
>> instructions should note that pad for pin 1 is square. Maybe this had
>> been the source of trouble.
>>
>> Thanks to everyone who is following my blunders.
>>
>> Wendell
>> N7WM
>>
>>
>> > Dale-

>> > Thanks for the offer. I will work on it for a few days yet, then will
>> let
>> > you know.
>> > Wendell
>> >
>> >
>> >
>> >>
>> >> Hey Windell, If you want, send that to me, I'll get it going for you,
>> >> and
>> >> ship it back, k?All you would be out of pocket is the shipping. And
>> that
>> >> will be about 8 for Priority USPS... Dale - WC7S 5503 N. College
>> >> Dr.Cheyenne, Wy, 82009 k?
>> >>
>> >> --... ...--
>> >> Dale - WC7S in Wy
>> >> To: AT_Sprint@yahoogroups.com
>> >> From: wmorrill@...
>> >> Date: Wed, 26 Sep 2012 15:15:32 -0600
>> >> Subject: RE: [AT_Sprint] Weber Tribander kit help
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>> >> Dale-
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>> >> I reflowed the solder on R1, R2, and R3.

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>> >> Removed and reinserted U6, looks like solder has flowed from the
>> >> underside
>> >>
>> >> of the board to the top at pin 28.
>> >>
>> >> Have gone through the restart sequence at least a half dozen times.
>> >> Still
>> >>
>> >> have the problem.
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>> >> I am using a bausch and lomb variable power dissecting scope. There
>> is
>> >>
>> >> room to solder and plenty of light.
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>> >>
>> >> Will need to think about this for a while. Sometimes solutions appear
>> >>
>> >> overnight.
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>> >> Thanks for the help.
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>> >> Wendell
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>> >>
>> >>> Hi Wendell, Take a close look at the resistors on the display board,
>> >>> R41,
>> >>
>> >>> 42, & 43... and the connections to the wires that go to the
>> >>> bandswitch.It
>> >>
>> >>> appears to be switching to the proper band, but not settling....
>> this
>> >>> may
>> >>
>> >>> very well be a Steve ?? after all.Can you also take a very very
>> close
>> >>
>> >>> look, or possibly reheat pin 28 of U6? I use a X30 glass... to see,
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>> >>> with
>> >>> a
>> >>
>> >>> whole lotta light.
>> >>
>> >>> --... ...--
>> >>
>> >>> Dale - WC7S in Wy
>> >>
>> >>> To: AT_Sprint@yahoogroups.com
>> >>
>> >>> From: wmorrill@...
>> >>
>> >>> Date: Wed, 26 Sep 2012 13:05:29 -0600
>> >>
>> >>> Subject: RE: [AT_Sprint] Weber Tribander kit help
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>> >>> Dale- my toggle switch moves vertically, not horizontally.
>> >>> Center
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>> >>> position is for band A, or 80m. Upper is for band b, or 40m. Lower
>> >>
>> >>>
>> >>
>> >>> position is for band C, or 30 m. When I assign bands for the switch
>> >>
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>> >>
>> >>> positions, everything looks fine. The little switch below the dial
>> >>> moves
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>> >>> through the bands OK, and the dit from the keyer functions OK.
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>> >>> I have reheated the solder pads, and checked the toroids and trimmer
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>> >>>> Hi Wendell, The bandswitch for the Tribander... yours.How are the
>> >>>> bands
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>> >>>> arranged when, looking at the front of the radio, and the toggle of
>> >>>> the
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>> >>>> switch is to the far left = what band"? Centered = what band ?...
>> and
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>> >>>> to
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>> >>>> the far right = what band? I have been trying to get mine to do
>> what
>> >>
>> >>>> you
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>> >>>> have, and can't figure it out...
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>> >>>> --... ...--
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>> >>>> Dale - WC7S in Wy
>> >>
>> >>>
>> >>
>> >>>> To: AT_Sprint@yahoogroups.com
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>> >>>> From: wmorrill@...
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>> >>>> Date: Tue, 25 Sep 2012 21:03:47 -0600
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>> >>>> Subject: [AT_Sprint] Weber Tribander kit help
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>> >>>> Steve-
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>> >>>> I am having trouble with a tribander, maybe you will have
>> suggestions.
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>> >>>> It is set up for 80, 40, 30 meters, for band A, B, and C,
>> >>>> respectively.
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>> >>>> Problem: when I switch to 80, the dial flashes between 80 and
>> 560.0,
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>> >>>> doesn't stabilize to show the operating frequency.
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>> >>>> I can hear signals during the split seconds between the flashes.

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>> >>>> I have gone through the reset procedure several times, and have
>> >>>> similar
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>> >>>> results. It appears that band selection procedure is OK, and the 40
>> >>>> and
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>> >>>> 30 bands seem fine. However, when I switch to 80, the problem
>> occurs.
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>> >>>> I hope the MEGA48 isn't faulty.
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>> >>>> 40 is working great, over 5 W output. 30 output is low, am still
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>> >>>> I think a black bear ate someone in a tent in the Bob Marshal this
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>> >>>> Lots of wild fires here, so no SOTA for me in the Gallatin Range
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9844. WTB ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-01 18:11:40 UTC
From: Keith Hamilton
Topic: 9844 Message: 9844

I am looking to purchase an ATS-3B in good working condition. Please email me off the list at tuner@.... Thanks! 73 Keith N8CEP

9845. Re: [AT_Sprint] Weber Tribander kit help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-01 19:51:30 UTC
From: wmorrill@montana.edu
Topic: 9449 Message: 9845

Dale-
Be on the alert for the UPS truck.
Wendell

> Johnny=
> Sorry, still no joy. Thanks for your interest, still might need to send
> it to Dale.
> 73
> Wendell
>
>
>> Hello Wendell
>> I have to ask after all of this suspense, did this fix the little rig??
>> Thanks 73
>> Johnny AC0BQ
>>
>> On Fri, Sep 28, 2012 at 9:00 PM, <wmorrill@...> wrote:
>>
>>> **
>>>
>>>
>>> Am still working on the tribander kit.... removed ICs and inserted them
>>> again to be sure no pins were folded under... wish I would have used
>>> machined pins instead of the cheap sockets...double checked the wires
>>> to
>>> be sure they were correct... reflowed most of the solder...checked for
>>> unsoldered joints and solder bridges by using a good microscope....
>>>
>>> I checked the voltage on some of the ICs. The diagram shows the AD9834
>>> as
>>> U8, U8 is LM386.... incorrect readings showed up on the U2 mixer, pins
>>> 5,
>>> 6, and 7 were 0V, instead of 3.9, 4.5, and 4.3, respectively. Maybe
>>> that
>>> narrows things down a bit, have to look for a short or faulty component
>>> somewhere in the circuits.
>>>
>>> Finally, I looked at the 1K resistor that is added to the bottom of the
>>> board.... between pins 1 and 4 of U3. Well, I counted wrong, and didn't
>>> see that the pad for pin 1 is square. I had put the resistor on pin 2
>>> and
>>> the pad below U3. Easy to make this mistake, suggest that the
>>> instructions should note that pad for pin 1 is square. Maybe this had
>>> been the source of trouble.
>>>

>>> Thanks to everyone who is following my blunders.
>>>
>>> Wendell
>>> N7WM
>>>
>>>
>>> > Dale-
>>> > Thanks for the offer. I will work on it for a few days yet, then will
>>> let
>>> > you know.
>>> > Wendell
>>> >
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>>> >>
>>> >> Hey Windell, If you want, send that to me, I'll get it going for
>>> you,
>>> >> and
>>> >> ship it back, k?All you would be out of pocket is the shipping. And
>>> that
>>> >> will be about 8 for Priority USPS... Dale - WC7S 5503 N. College
>>> >> Dr.Cheyenne, Wy, 82009 k?
>>> >>
>>> >> --... ...--
>>> >> Dale - WC7S in Wy
>>> >> To: AT_Sprint@yahoogroups.com
>>> >> From: wmorrill@...
>>> >> Date: Wed, 26 Sep 2012 15:15:32 -0600
>>> >> Subject: RE: [AT_Sprint] Weber Tribander kit help
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>>> >> Dale-
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>>> >> I reflowed the solder on R1, R2, and R3.
>>> >>
>>> >> Removed and reinserted U6, looks like solder has flowed from the
>>> >> underside
>>> >>
>>> >> of the board to the top at pin 28.
>>> >>
>>> >> Have gone through the restart sequence at least a half dozen times.
>>> >> Still
>>> >>
>>> >> have the problem.
>>> >>
>>> >>
>>> >>
>>> >> I am using a bausch and lomb variable power dissecting scope. There
>>> is
>>> >>
>>> >> room to solder and plenty of light.
>>> >>
>>> >>
>>> >>
>>> >> Will need to think about this for a while. Sometimes solutions
>>> appear
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>>> >> overnight.
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>>> >> Thanks for the help.
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>>> >> Wendell
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>>> >>
>>> >>> Hi Wendell, Take a close look at the resistors on the display
>>> board,
>>> >>> R41,
>>> >>
>>> >>> 42, & 43... and the connections to the wires that go to the
```

>>> >>> bandswitch.It
>>> >>
>>> >>> appears to be switching to the proper band, but not settling....
>>> this
>>> >>> may
>>> >>
>>> >>> very well be a Steve ?? after all.Can you also take a very very
>>> close
>>> >>
>>> >>> look, or possibly reheat pin 28 of U6? I use a X30 glass... to see,
>>> >>> with
>>> >>> a
>>> >>
>>> >>> whole lotta light.
>>> >>
>>> >>> --... ...--
>>> >>
>>> >>> Dale - WC7S in Wy
>>> >>
>>> >>> To: AT_Sprint@yahoogroups.com
>>> >>
>>> >>> From: wmorrill@...
>>> >>
>>> >>> Date: Wed, 26 Sep 2012 13:05:29 -0600
>>> >>
>>> >>> Subject: RE: [AT_Sprint] Weber Tribander kit help
>>> >>
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>>> >>
>>> >>> Dale- my toggle switch moves vertically, not horizontally.
>>> >>> Center
>>> >>
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>>> >>
>>> >>> position is for band A, or 80m. Upper is for band b, or 40m. Lower
>>> >>
>>> >>>
>>> >>
>>> >>> position is for band C, or 30 m. When I assign bands for the switch
>>> >>
>>> >>>
>>> >>
>>> >>> positions, everything looks fine. The little switch below the dial
>>> >>> moves
>>> >>
>>> >>>
>>> >>
>>> >>> through the bands OK, and the dit from the keyer functions OK.
>>> >>

```
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>>> >>
>>> >>>
>>> >>
>>> >>> I have reheated the solder pads, and checked the toroids and
>>> trimmer
>>> >>
>>> >>>
>>> >>
>>> >>> capacitor pads with a vom.
>>> >>
>>> >>>
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>>> >>
>>> >>> Wendell
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>>> >>>>
>>> >>
>>> >>>
>>> >>
>>> >>>> Hi Wendell, The bandswitch for the Tribander... yours.How are the
>>> >>>> bands
>>> >>
>>> >>>
>>> >>
>>> >>>> arranged when, looking at the front of the radio, and the toggle
>>> of
>>> >>>> the
>>> >>
>>> >>>
>>> >>
>>> >>>> switch is to the far left = what band"? Centered = what band ?...
>>> and
>>> >>
>>> >>>> to
>>> >>
>>> >>>
>>> >>
>>> >>>> the far right = what band? I have been trying to get mine to do
```

```
>>> what
>>> >>
>>> >>>> you
>>> >>
>>> >>>
>>> >>
>>> >>>> have, and can't figure it out...
>>> >>
>>> >>>
>>> >>
>>> >>>>
>>> >>
>>> >>>
>>> >>
>>> >>>> --... ...--
>>> >>
>>> >>>
>>> >>
>>> >>>> Dale - WC7S in Wy
>>> >>
>>> >>>
>>> >>
>>> >>>> To: AT_Sprint@yahoogroups.com
>>> >>
>>> >>>
>>> >>
>>> >>>> From: wmorrill@...
>>> >>
>>> >>>
>>> >>
>>> >>>> Date: Tue, 25 Sep 2012 21:03:47 -0600
>>> >>
>>> >>>
>>> >>
>>> >>>> Subject: [AT_Sprint] Weber Tribander kit help
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>>> >>>> Steve-
>>> >>
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```

>>> >>>> I am having trouble with a tribander, maybe you will have
>>> suggestions.
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>>> >>>>
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>>> >>>
>>> >>
>>> >>>> It is set up for 80, 40, 30 meters, for band A, B, and C,
>>> >>>> respectively.
>>> >>
>>> >>>
>>> >>
>>> >>>>
>>> >>
>>> >>>
>>> >>
>>> >>>>
>>> >>
>>> >>>
>>> >>
>>> >>>>
>>> >>
>>> >>>
>>> >>
>>> >>>> Problem: when I switch to 80, the dial flashes between 80 and
>>> 560.0,
>>> >>
>>> >>>> and
>>> >>
>>> >>>
>>> >>
>>> >>>>
>>> >>
>>> >>>
>>> >>
>>> >>>> doesn't stabilize to show the operating frequency.
>>> >>
>>> >>>
>>> >>
>>> >>>>

```
>>> >>
>>> >>>
>>> >>
>>> >>>>
>>> >>
>>> >>>
>>> >>
>>> >>>>
>>> >>
>>> >>>
>>> >>
>>> >>>> I can hear signals during the split seconds between the flashes.
>>> >>
>>> >>>
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>>> >>>>
>>> >>
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>>> >>>>
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>>> >>
>>> >>>>
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>>> >>
>>> >>>> I have gone through the reset procedure several times, and have
>>> >>>> similar
>>> >>
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>>> >>>>
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>>> >>>
>>> >>
>>> >>>> results. It appears that band selection procedure is OK, and the
>>> 40
>>> >>>> and
>>> >>
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>>> >>>>
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>>> >>
>>> >>>> 30 bands seem fine. However, when I switch to 80, the problem
>>> occurs.
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>>> >>>> I hope the MEGA48 isn't faulty.
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>>> >>>> 40 is working great, over 5 W output. 30 output is low, am still
>>> >>
>>> >>>> working
>>> >>
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>>> >>
>>> >>>> on that.
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>>> >>>>
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>>> >>>> I think a black bear ate someone in a tent in the Bob Marshal this
>>> >>
>>> >>>> summer.
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>>> >>
>>> >>>> Lots of wild fires here, so no SOTA for me in the Gallatin Range
>>> this
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>>> >>>
>>> >>
>>> >>>> fall.
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>>> >>>
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>>> >>>
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>>> >>>>
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>>> >>>> Wendell
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9846. RE: [AT_Sprint] 1st ATS QSO Party Results

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-02 17:16:34 UTC
From: Mike Olbrisch
Topic: 9837 Message: 9846

DO IT AGAIN?

Lee is a SOTA operator - I am going to tell him to NOT do it again until I get my ATS-4.

What do you think about that? <grin>.

Mike - KD9KC.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Thursday, September 27, 2012 20:30
To: AT Sprint
Subject: RE: [AT_Sprint] 1st ATS QSO Party Results

Great job, Lee... and a whole lotta fun for us all.
Thank you for all that hard work too.

What a bunch of fun was had by all..

Now the burning question.. when can we do it again???

Note to self.... charge batteries....

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: lee.hiers@...
Date: Thu, 27 Sep 2012 00:48:03 -0400
Subject: [AT_Sprint] 1st ATS QSO Party Results

I finally got the results published.

Highs - lots of fun with Steve Weber's rigs!

Lows - poor conditions

Thanks to all who participated, and we'll run another edition before too long - watch here on the list for an announcement!

Check out the results at http://ats-sprint.blogspot.com <http://ats-sprint.blogspot.com/> and click on the Results tabs for the full detail and soapbox.

73 de Lee
--
Lee Hiers, AA4GA

www.aa4ga.com
Submit your totals to the unofficial QRP DXCC standings - go to
http://www.aa4ga.com/p/qrp-dxcc.html for more info!

9847. Re: [AT_Sprint] 1st ATS QSO Party Results

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-02 21:59:40 UTC
From: Peter Martin
Topic: 9837 Message: 9847

On Thu, Sep 27, 2012 at 5:48 AM, Lee Hiers <lee.hiers@...> wrote:

>
>
> I finally got the results published.
>
>
>
Lee,
many thanks for organising.
Maybe next time we can have it a bit earlier so that us folks on this side of the pond don't have to stay up all night!

Anyway, apart from the poor condx I had a great time.
Luckily the weather was kind to us or the portable OP may have been called off. Even though I only logged 6 QSO's the ATS4 was still cooling down from a SOTA activation a few hours earlier when I made 30+ contacts including 2 across he pond.

If anyone is interested this was my operating location except it was pitch black!
http://youtu.be/Ffje8VVcUKk

72
Pete

9848. Re: [AT_Sprint] 1st ATS QSO Party Results

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-03 00:24:32 UTC
From: Lee Hiers
Topic: 9837 Message: 9848

On Tue, Oct 2, 2012 at 5:59 PM, Peter Martin <paradoxpete.pdm@...>wrote:

Maybe next time we can have it a bit earlier so that us folks on this side
> of the pond don't have to stay up all night!
>

That is definitely one of the changes that's going to happen!

Couldn't believe you did a /P from the UK for the first ATS QSO Party -
pretty amazing!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

9849. RE: [AT_Sprint] 1st ATS QSO Party Results

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-03 01:38:47 UTC
From: Dale Putnam
Topic: 9837 Message: 9849

Ok,... I'll be good.. I promise not to change rigs all over the place... how about different rigs .... on different bands? Would that be better?I was only trying to help others make more points... And if we plan an even near the Spring Equinox.. we could enjoy some mighty fine band conditions.. just like we are had at the Fall Equinox... and Winter Solstice should be pretty good for the low bands too.. Mike and others should have their radios by the next one too. See you in the next test... and even tho I'll be a year older... I'm still going to be in the Ca and Pa QSO parties too.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: lee.hiers@gmail.com
Date: Tue, 2 Oct 2012 20:24:32 -0400
Subject: Re: [AT_Sprint] 1st ATS QSO Party Results

On Tue, Oct 2, 2012 at 5:59 PM, Peter Martin <paradoxpete.pdm@...> wrote:

Maybe next time we can have it a bit earlier so that us folks on this side of the pond don't have to stay up all night!

That is definitely one of the changes that's going to happen!
Couldn't believe you did a /P from the UK for the first ATS QSO Party - pretty amazing!

73 de Lee--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to
http://www.aa4ga.com/p/qrp-dxcc.html for more info!

9850. Re: [AT_Sprint] 1st ATS QSO Party Results

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-04 03:59:53 UTC
From: nicehouse101@yahoo.com
Topic: 9837 Message: 9850

One more time Dale happy birthday.....you are growing older with style..... 73 ....Me

---
From: Dale Putnam <daleputnam@...>
To: AT Sprint <at_sprint@yahoogroups.com>
Sent: Tuesday, October 2, 2012 6:38 PM
Subject: RE: [AT_Sprint] 1st ATS QSO Party Results

Ok,... I'll be good.. I promise not to change rigs all over the place... how about different rigs .... on different bands? Would that be better?
I was only trying to help others make more points...
And if we plan an even near the Spring Equinox.. we could enjoy some mighty fine band conditions.. just like we are had at the Fall Equinox... and Winter Solstice should be pretty good for the low bands too..
  Mike and others should have their radios by the next one too.

See you in the next test...
and even tho I'll be a year older... I'm still going to be in the Ca and Pa QSO parties too.

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: lee.hiers@...m
Date: Tue, 2 Oct 2012 20:24:32 -0400
Subject: Re: [AT_Sprint] 1st ATS QSO Party Results

On Tue, Oct 2, 2012 at 5:59 PM, Peter Martin <paradoxpete.pdm@...> wrote:

Maybe next time we can have it a bit earlier so that us folks on this side of the pond don't have to stay up all night!
>

That is definitely one of the changes that's going to happen!

Couldn't believe you did a /P from the UK for the first ATS QSO Party - pretty amazing!

73 de Lee
--
Lee Hiers, AA4GA

http://www.aa4ga.com/

Submit your totals to the unofficial QRP DXCC standings - go to http://www.aa4ga.com/p/qrp-dxcc.html for more info!

9851. NAQCC 8th Anniversary

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-05 02:26:59 UTC
From: NAQCC
Topic: 9851 Message: 9851

This coming week of October 7 through the 13th is a very special one for the North American QRP CW Club (NAQCC). That week we celebrate the 8th anniversary of the founding of the club by Tom KB3LFC (now WY3H) - President, and John K3WWP - Vice-President. We will have 10 special event stations on the air that week - one from each USA call area - with the calls N1A, N2A, N3A, N4A, N5A, N6A, N7A, N8A, N9A, N0A. The 40 operators of the calls will post their operating schedule at http://naqcc.info/n3a_complete_schedule.php so you will know when and where to look for them as you participate in our celebration.

We are offering special QSL cards and Certificates for anyone who works one or more of our special event stations. To find out how you may obtain one and/or the other, check the information contained on the page at http://naqcc.info/main_n3a.html. You must follow the informatin there EXACTLY or your request may not be fulfilled.

The operation commences at 0000Z October 7 and continues through 2359Z October 13. That is the week of our monthly sprint with which many of you reading this may already be familiar. However this month's sprint is something special as all 10 of our special event calls will be active for the full two hours. There may be some sort of award or prize to the one working the most different calls. This should make our already extremely popular sprints even more popular than usual when we normally get 175-200 participants, of whom 110-130 or so will submit logs.

The sprint is Tuesday evening October 9 at 8:30-10:30 PM EDT which converts to the more familiar Wednesday October 10 from 0030-0230Z. Hope to see you there as well as at other times during anniversary week.

```
* John K3WWP - 100% CW / QRP - Proudly promoting Morse Code:
*
* As NAQCC VP - # 0002 FC # 1 - http://naqcc.info/
*
* As FISTS Keynote QRP Columnist - # 2002 - http://www.fists.org/
*
* With my CW-QRP site - http://home.windstream.net/johnshan/
```

on behalf of all our 40 special event station operators

with thanks to Dave VA3RJ for distributing this information to his wealth of sources.

9852. ATS-4B Firmware update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-05 21:24:54 UTC
From: nz8j
Topic: 9852 Message: 9852

I have a ATS-4B that I assume doesn't have the latest firmware in it as it won't retain frequencies when powered down and back up.

I would like to hear from someone who has upgraded theirs and how hard it was to do. I don't have a computer with a parallel port so I would have to install one of those as a starter I assume.

Thanks for any help/suggestions..
Thanks
Tim
NZ8J

9853. Re: ATS-4B Firmware update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-06 11:13:39 UTC
From: nz8j
Topic: 9852 Message: 9853

I must have been dreaming as it now is retaining frequencies, not sure why I thought it wasn't...Maybe I should have checked closer before assuming it wasn't working as described...

Thanks
Tim
Nz8J

--- In AT_Sprint@yahoogroups.com, "nz8j" <nz8j@...> wrote:
>
> I have a ATS-4B that I assume doesn't have the latest firmware in it as it won't retain frequencies when powered down and back up.
>
> I would like to hear from someone who has upgraded theirs and how hard it was to do. I don't have a computer with a parallel port so I would have to install one of those as a starter I assume.
>
> Thanks for any help/suggestions..
> Thanks
> Tim
> NZ8J
>

9854. Re:: ATS-4B Firmware update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-06 15:30:03 UTC
From: cloud runner
Topic: 9854 Message: 9854

In my ATS4B, frequency is not retained during a power off and power back on ... UNLESS ... I change bands (while it is on). Just a tad quirky ;-)

fred - kt5x

----- Original Message -----
From: nz8j
To: AT_Sprint@yahoogroups.com
Sent: Saturday, October 06, 2012 5:13 AM
Subject: [AT_Sprint] Re: ATS-4B Firmware update

I must have been dreaming as it now is retaining frequencies, not sure why I thought it wasn't...Maybe I should have checked closer before assuming it wasn't working as described...

Thanks
Tim
Nz8J

--- In AT_Sprint@yahoogroups.com, "nz8j" <nz8j@...> wrote:
>
> I have a ATS-4B that I assume doesn't have the latest firmware in it as it won't retain frequencies when powered down and back up.
>
> I would like to hear from someone who has upgraded theirs and how hard it was to do. I don't have a computer with a parallel port so I would have to install one of those as a starter I assume.
>
> Thanks for any help/suggestions..
> Thanks
> Tim
> NZ8J
>

9855. Re: WTB ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-06 15:57:25 UTC
From: w8golfxray
Topic: 9844 Message: 9855

Thank you all! I was able to purchase an ATS-3B in excellent working condition! 73 Keith N8CEP

--- In AT_Sprint@yahoogroups.com, "Keith Hamilton" <tuner@...> wrote:
>
> I am looking to purchase an ATS-3B in good working condition. Please email me off the list at tuner@... Thanks! 73 Keith N8CEP
>

9856. Re: [AT_Sprint] ATS-4B Firmware update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-06 20:11:28 UTC
From: Håkan Olsson
Topic: 9852 Message: 9856

Tim,

It is not hard to do at all. Steve posted a guide some time ago. I made the cable and connections one has to have and I followed the guide. All went well. No problems!

Yes, you have to have a computer with a parallel port. It means you have to find an old computer somewhere....

And yes, I simply looove my ATS-4B. Made 134 SMFF activations in the bush this summer without any kind of problems what so ever!

H?kan - SM6EQO

nz8j skrev 2012-10-05 23:24:
>
> I have a ATS-4B that I assume doesn't have the latest firmware in it
> as it won't retain frequencies when powered down and back up.
>
> I would like to hear from someone who has upgraded theirs and how hard
> it was to do. I don't have a computer with a parallel port so I would
> have to install one of those as a starter I assume.
>
> Thanks for any help/suggestions..
> Thanks
> Tim
> NZ8J
>
>

9857. I don't understand the keying circuitry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-12 19:55:14 UTC
From: holweiderspatz
Topic: 9857 Message: 9857

I don't understand the keying circuitry. Why not simply key with one input of the 74ac02 and attach L14 directly to V+ ?

9858. Re: [AT_Sprint] I don't understand the keying circuitry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-12 20:32:33 UTC
From: Hank Greeb
Topic: 9857 Message: 9858

Keying of which kind of rig? The AT-Sprint series?

The "keying" of an AT-Sprint changes the VFO frequency to that needed for receive vs that needed for transmit, so it's not just and on/off keying circuit. I haven't bothered to figure out everything it does, but, besides changing the VFO frequency it turns off parts of the receiver and turns on the transmitter and keying monitor.

72/73 de n8xx Hg

On 10/12/2012 3:55 PM, holweiderspatz wrote:
> I don't understand the keying circuitry. Why not simply key with one input of the 74ac02 and attach L14 directly to V+ ?

9859. Re: [AT_Sprint] I don't understand the keying circuitry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-12 21:07:01 UTC
From: Bill Noyce
Topic: 9857 Message: 9859

It also shapes the voltage on the final MOSFETs so it ramps up and down
over a few milliseconds, to minimize keyclicks.
-- Bill, AB1AV
On Oct 12, 2012 4:32 PM, "Hank Greeb" <n8xx@...> wrote:

> **
>
>
>
> Keying of which kind of rig? The AT-Sprint series?
>
> The "keying" of an AT-Sprint changes the VFO frequency to that needed for
> receive vs that needed for transmit, so it's not just and on/off keying
> circuit. I haven't bothered to figure out everything it does, but, besides
> changing the VFO frequency it turns off parts of the receiver and turns on
> the transmitter and keying monitor.
>
> 72/73 de n8xx Hg
>
> On 10/12/2012 3:55 PM, holweiderspatz wrote:
>
> I don't understand the keying circuitry. Why not simply key with one input of the 74ac02
and attach L14 directly to V+ ?
>
>
>

9860. Re: [AT_Sprint] I don't understand the keying circuitry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-12 23:34:50 UTC
From: Yannick DEVOS (XV4Y)
Topic: 9857 Message: 9860

Hi "holweiderspatz <holweiderspatz@...>",

I don't know about which radio you're talking about.
Anyway, I think you miss the fact that you have also to turn on/off the sidetone and switch the audio.
I am no expert but from what I read, directly keying the 74AC02 also has some drawbacks. If something goes wrong the FETs could be turned on all the time long, draining a lot of current and finally dying...

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 13 oct. 2012 à 02:55, holweiderspatz a écrit :

> I don't understand the keying circuitry. Why not simply key with one input of the 74ac02 and attach L14 directly to V+ ?
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>

9861. ATS-4, A, or B?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-20 14:46:06 UTC
From: Saad Mahaini
Topic: 9861 Message: 9861

Hello friends,

I recently purchased a ATS-4 kit that came with no documentation, so i cant tell what i have ATS-4, A or B version.

First of all, what is the real difference between those variations of the kit?

Secondly, how can i tell what kit i have?

Finally, any "words of wisdom" and "need to know" before i start building the kit?

I appreciate your feedback

Thanks

73 Saad N5FF

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2012.0.2221 / Virus Database: 2441/5342 - Release Date: 10/19/12

9862. RE: [AT_Sprint] ATS-4, A, or B?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-20 15:39:10 UTC
From: Dale Putnam
Topic: 9861 Message: 9862

Hi Saad, Congratulations, on the buy. First, pull the board, and inspect it. Check the printed label, for an indication to which it is.There are changes on the board... the quickest way to tell is to look at the LM 386 ic. Which way is the notch or pin one indicator pointing?Pointing up... is the early 4, pointing towards the closest edge of the board is rev a, and pointing down is the rev b. If you want, I can send the proper docs for it.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: n5ff@tx.rr.com
Date: Sat, 20 Oct 2012 09:46:06 -0500
Subject: [AT_Sprint] ATS-4, A, or B?

Hello friends,

I recently purchased a ATS-4 kit that came with no documentation, so i

cant tell what i have ATS-4, A or B version.

First of all, what is the real difference between those variations of

the kit?

Secondly, how can i tell what kit i have?

Finally, any "words of wisdom" and "need to know" before i start

building the kit?

I appreciate your feedback

Thanks

73 Saad N5FF

No virus found in this message.

Checked by AVG - www.avg.com

Version: 2012.0.2221 / Virus Database: 2441/5342 - Release Date: 10/19/12

9863. Re: FS: ATS-3B and MTR Radios

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-20 15:49:52 UTC
From: g4efe
Topic: 9770 Message: 9863

Whoops - just found this!

73

--- In AT_Sprint@yahoogroups.com, "Robin Kidd" <w4ien@...> wrote:
>
> Sorry just got a payment for the MTR
>
>

9864. Re: [AT_Sprint] ATS-4, A, or B?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-20 16:11:16 UTC
From: Steven Weber
Topic: 9861 Message: 9864

If you have a ATS-4, one of the switches (ON button) mounts to the board at right angles and therefore there is a hole for it on the front edge of the case. Also, you will have a 28 pin processor chip, but the board location for it only has 20 pins.

If you have a ATS-4A, then it will say so on the top side of the board, near the center top - ATS-4a.

If you have a ATS-4B, then the ON switch will be vertical (like the A version) but the lable on the board will just say ATS-4 - I forgot to add the "b". The B also uses a 28 pin processor, but has the proper 28 pin location for it on the board.

The manuals for each version can be found in the files section of this yahoo group.

Three main differences between the -4 and -4A:

1. Moved the ON switch to top of case in "A" version (was side mounted in -4)
2. Replaced hand wound toroids in Rx input filter with RFC chokes
3. Different display used -4 used graphic display capable of displaying 4 lines of text, A version used 3 line ASCII display.
4. Added side tone level control

Differences between A and B:

1. Went back to using gaphics display like the -4
2. Added AGC volume limiting circuit.

>
> I recently purchased a ATS-4 kit that came with no documentation, so i
> cant tell what i have ATS-4, A or B version.
>
> First of all, what is the real difference between those variations of
> the kit?

9865. Re: [AT_Sprint] ATS-4, A, or B?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-21 00:52:34 UTC
From: Saad Mahaini
Topic: 9861 Message: 9865

Thanks Steve, I confirm i have the ATS-4B kit. Ill download the
assembly manual from the group file section. 73 Saad N5FF

On 10/20/2012 11:11 AM, Steven Weber wrote:
>
> If you have a ATS-4, one of the switches (ON button) mounts to the
> board at
> right angles and therefore there is a hole for it on the front edge of
> the
> case. Also, you will have a 28 pin processor chip, but the board location
> for it only has 20 pins.
>
> If you have a ATS-4A, then it will say so on the top side of the
> board, near
> the center top - ATS-4a.
>
> If you have a ATS-4B, then the ON switch will be vertical (like the A
> version) but the lable on the board will just say ATS-4 - I forgot to add
> the "b". The B also uses a 28 pin processor, but has the proper 28 pin
> location for it on the board.
>
> The manuals for each version can be found in the files section of this
> yahoo
> group.
>
> Three main differences between the -4 and -4A:
>
> 1. Moved the ON switch to top of case in "A" version (was side mounted
> in -4)
> 2. Replaced hand wound toroids in Rx input filter with RFC chokes
> 3. Different display used -4 used graphic display capable of displaying 4
> lines of text, A version used 3 line ASCII display.
> 4. Added side tone level control
>
> Differences between A and B:
>
> 1. Went back to using gaphics display like the -4
> 2. Added AGC volume limiting circuit.
>
> >
> > I recently purchased a ATS-4 kit that came with no documentation, so i
> > cant tell what i have ATS-4, A or B version.
> >
> > First of all, what is the real difference between those variations of
> > the kit?

>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2012.0.2221 / Virus Database: 2441/5343 - Release Date: 10/20/12
>

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2012.0.2221 / Virus Database: 2441/5344 - Release Date: 10/20/12

9866. Re: [AT_Sprint] ATS-4, A, or B?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-21 00:56:43 UTC
From: Saad Mahaini
Topic: 9861 Message: 9866

Thanks Dale. Im going to look for the manual in the file section of the yahoo group, unless you have a better document which i will certainly appreciate a copy. I confirm I have the B kit 73 Saad N5FF

On 10/20/2012 10:39 AM, Dale Putnam wrote:
>
> Hi Saad,
> Congratulations, on the buy. First, pull the board, and inspect it.
> Check the printed label, for an indication to which it is.
> There are changes on the board... the quickest way to tell is to look
> at the LM 386 ic. Which way is the notch or pin one indicator pointing?
> Pointing up... is the early 4, pointing towards the closest edge of
> the board is rev a, and pointing down is the rev b.
>
> If you want, I can send the proper docs for it.
>
>
> --... ...-- Dale - WC7S in Wy
>
> ---
> To: AT_Sprint@yahoogroups.com
> From: n5ff@...
> Date: Sat, 20 Oct 2012 09:46:06 -0500
> Subject: [AT_Sprint] ATS-4, A, or B?
>
> Hello friends,
>
> I recently purchased a ATS-4 kit that came with no documentation, so i
> cant tell what i have ATS-4, A or B version.
>
> First of all, what is the real difference between those variations of
> the kit?
>
> Secondly, how can i tell what kit i have?
>
> Finally, any "words of wisdom" and "need to know" before i start
> building the kit?
>
> I appreciate your feedback
>
> Thanks
>
> 73 Saad N5FF
>
> -----

> No virus found in this message.
> Checked by AVG - www.avg.com
> Version: 2012.0.2221 / Virus Database: 2441/5342 - Release Date: 10/19/12
>
>
>
>
> No virus found in this message.
> Checked by AVG - www.avg.com <http://www.avg.com>
> Version: 2012.0.2221 / Virus Database: 2441/5343 - Release Date: 10/20/12
>

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2012.0.2221 / Virus Database: 2441/5344 - Release Date: 10/20/12

9867. How many ATS's and MT's out there ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-21 12:31:23 UTC
From: g0peb
Topic: 9867 Message: 9867

Hi everyone,

Would anybody know how many ATS 3's / 4's and Mountain Topper transceivers were issued/made ... ?

There are approx 1270 group members out there, who either have or would be keen to get their hands on one of these little devices.

Am looking for a Mountain Topper tx/rx.

73

Rob
G0PEB

9868. Re: [AT_Sprint] How many ATS's and MT's out there ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-21 13:56:00 UTC
From: Yannick (XV4Y)
Topic: 9867 Message: 9868

Hi Rob,

Here is the answer :
http://groups.yahoo.com/group/AT_Sprint/message/9100

This is interesting to read too :
http://groups.yahoo.com/group/AT_Sprint/message/2427

73,
Yan.

Yannick DEVOS - XV4Y
New online shop
http://xv4y.radioclub.asia/boutique/

Le 21 oct. 2012 à 19:31, g0peb a écrit :

> Hi everyone,
>
> Would anybody know how many ATS 3's / 4's and Mountain Topper transceivers were issued/made ... ?
>
> There are approx 1270 group members out there, who either have or would be keen to get their hands on one of these little devices.
>
> Am looking for a Mountain Topper tx/rx.
>
> 73
>
> Rob
> G0PEB
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>

9869. Re: [AT_Sprint] How many ATS's and MT's out there ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-21 17:00:11 UTC
From: f6ddv
Topic: 9867 Message: 9869

Hello guys!
I am a proud owner of an ATS-3A 20 30 40 and 80 m for a few months
is it possible to sacrifice the 80 m band, which interests me less portable in nature, and
and build printed circuit board
for bands 10 12 15 or 17 m
the circuit board does not seem complicated, but it is positive pictures somewhere to
burning here?
or OM who build and sell?
I still do not know the technique, I still get the documentation and translated into
French, so my question may be silly ...
But international proverb says: ridicule does not kill
but curiosity advances ...
73s all
jean paul F6DDV
From: Yannick (XV4Y)
To: AT_Sprint@yahoogroups.com
Sent: Sunday, October 21, 2012 3:56 PM
Subject: Re: [AT_Sprint] How many ATS's and MT's out there ?

Hi Rob,

Here is the answer :
http://groups.yahoo.com/group/AT_Sprint/message/9100

This is interesting to read too :
http://groups.yahoo.com/group/AT_Sprint/message/2427

73,
Yan.

Yannick DEVOS - XV4Y
New online shop
http://xv4y.radioclub.asia/boutique/

9870. Re: [AT_Sprint] How many ATS's and MT's out there ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-22 01:28:39 UTC
From: Steven Weber
Topic: 9867 Message: 9870

The 3A uses a 40 Mhz reference oscillator which will only support frequencies up to 20 meters. Even if the DDS chip could support frequencies up to 28 MHz (which it can't) 10 and 12 meters is not possible with the transmitter design for stability reasons and very, very touchy output filters. In theory, 15 or 17M opereration is is possible with the required changes in reference oscillator frequency, DDS filter and software, but is not recommened due to the layout of the output filter on the band modules, which have a bit more "blow-by" then is optimal.

72, Steve KD1JV

Hello guys!
I am a proud owner of an ATS-3A 20 30 40 and 80 m for a few months
is it possible to sacrifice the 80 m band, which interests me less portable in nature, and and build printed circuit board
for bands 10 12 15 or 17 m
the circuit board does not seem complicated, but it is positive pictures somewhere to burning here?
or OM who build and sell?
I still do not know the technique, I still get the documentation and translated into French, so my question may be silly ...
But international proverb says: ridicule does not kill
but curiosity advances ...
73s all
jean paul F6DDV

9871. FOXHUNT - Whaaaahoooooo!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-22 02:55:56 UTC
From: Dale Putnam
Topic: 9871 Message: 9871

The Game Warden says we can start!!!! All we have to do first is line up the Foxii... (applications are being taken on the Webpage - http://www/qrpfoxhunt.com)and set up the teams... Team captains gather your list of members... send that list with your contact email and phone number.. to me. Now all we need to do is get this accomplished soonest. That would be as soonest we can. There are some back room things that need to be done, before we can kick it off.. so.. lets gather our stuff.. and getter done!! And, are you ready? Really ready?And may be Foxii be ever in your favor!!
--... ...--
Dale - WC7S in Wyhttp://www.qrpfoxhunt.org

9872. Re: [AT_Sprint] FOXHUNT - Whaaaahoooooo!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-22 03:07:55 UTC
From: Hank Greeb
Topic: 9871 Message: 9872

It's actually http://www.qrpfoxhunt.org

On 10/21/2012 10:55 PM, Dale Putnam wrote:
>
>
> The Game Warden says we can start!!!! All we have to do first is
> line up the Foxii... (applications are being taken on the Webpage -
> http://www/qrpfoxhunt.com)
> and set up the teams... Team captains gather your list of members...
> send that list with your contact email and phone number.. to me.
>
> Now all we need to do is get this accomplished soonest. That would be
> as soonest we can.
>
> There are some back room things that need to be done, before we can
> kick it off.. so.. lets gather our stuff.. and getter done!!
>
> And, are you ready? Really ready?
> And may be Foxii be ever in your favor!!
>
>
> --... ...-- Dale - WC7S in Wy
> http://www.qrpfoxhunt.org
>
>
>
>

9873. RE: [pfr3_group] FOXHUNT - Whaaaahoooooo!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-22 03:14:19 UTC
From: Dale Putnam
Topic: 9871 Message: 9873

Web page applications are to be found at: http://www.qrpfoxhunt.org Team rosters to me, And may be Foxii be ever in YOUR favor!

--... ...--
Dale - WC7S in Wy
To: qfox@yahoogroups.com; at_sprint@yahoogroups.com; pfr3_group@yahoogroups.com; notify-dg-qrp-plus@yahoogroups.com; qrp-l@...
From: daleputnam@...
Date: Sun, 21 Oct 2012 20:55:56 -0600
Subject: [pfr3_group] FOXHUNT - Whaaaahoooooo!!!!

The Game Warden says we can start!!!! All we have to do first is line up the Foxii...
(applications are being taken on the Webpage - http://www/qrpfoxhunt.com)
and set up the teams... Team captains gather your list of members... send that list with your contact email and phone number.. to me.

Now all we need to do is get this accomplished soonest. That would be as soonest we can.

There are some back room things that need to be done, before we can kick it off.. so.. lets gather our stuff.. and getter done!!

And, are you ready? Really ready?
And may be Foxii be ever in your favor!!

--... ...--
Dale - WC7S in Wy
http://www.qrpfoxhunt.org

9874. RE: [AT_Sprint] FOXHUNT - Whaaaahoooooo!!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-22 03:12:34 UTC
From: Dale Putnam
Topic: 9871 Message: 9874

aw nutz! the one below my signature is ok... where did that come from? Thank you, C U in the pack!!

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: n8xx@...
Date: Sun, 21 Oct 2012 23:07:55 -0400
Subject: Re: [AT_Sprint] FOXHUNT - Whaaaahoooooo!!!!

It's actually
http://www.qrpfoxhunt.org

On 10/21/2012 10:55 PM, Dale Putnam
wrote:

The Game Warden says we can start!!!! All we have to do first
is line up the Foxii... (applications are being taken on the
Webpage - http://www/qrpfoxhunt.com)

and set up the teams... Team captains gather your list of
members... send that list with your contact email and phone
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would be as soonest we can.

There are some back room things that need to be done, before we
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And, are you ready? Really ready?

And may be Foxii be ever in your favor!!

--... ...--
Dale - WC7S in Wy

http://www.qrpfoxhunt.org

9875. Re: [AT_Sprint] and fréquencies up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-22 11:47:54 UTC
From: f6ddv
Topic: 9875 Message: 9875

Hello Steve
I'm always happy to read your answers, this arrangement is very interesting but I do not understand all the operations correctly,
your answers are clear and simple.
As we succeed in finding a few of your "babies" is like winning the lottery ... HI
I had hoped to change the DCxxB up a little in the frequencies above 20 m as well, but there were also concerns ...
It's a shame because on the higher bands one single band 10, 12, 15, or 17 m would probably be very interesting, and the antenna easier.
I am looking to see if the guys make personal changes, but I do not see anything, HI, this is probably a little complicated, unfortunately.
I also sought if there was a manufacturer of these beautiful boxes DCxxB series, but I think it's over.
but this is not the issue here, I sold pfr3 and I'll watch something else in Hendricks treasures and put me on the list
that discusses this and other units that you have developed
Thank you all and 73s
jean paul F6DDV
----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Monday, October 22, 2012 3:28 AM
Subject: Re: [AT_Sprint] How many ATS's and MT's out there ?

The 3A uses a 40 Mhz reference oscillator which will only support frequencies up to 20 meters. Even if the DDS chip could support frequencies up to 28 MHz (which it can't) 10 and 12 meters is not possible with the transmitter design for stability reasons and very, very touchy output filters. In theory, 15 or 17M opereration is is possible with the required changes in reference oscillator frequency, DDS filter and software, but is not recommened due to the layout of the output filter on the band modules, which have a bit more "blow-by" then is optimal.

72, Steve KD1JV

Hello guys!
I am a proud owner of an ATS-3A 20 30 40 and 80 m for a few months
is it possible to sacrifice the 80 m band, which interests me less portable in nature, and and build printed circuit board
for bands 10 12 15 or 17 m
the circuit board does not seem complicated, but it is positive pictures somewhere to burning here?
or OM who build and sell?
I still do not know the technique, I still get the documentation and translated into French, so my question may be silly ...
But international proverb says: ridicule does not kill
but curiosity advances ...

73s all
jean paul F6DDV

9876. Fox apps

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-22 15:01:47 UTC
From: Dale Putnam
Topic: 9876 Message: 9876

40 Mtr Foxhunt Schedule - Winter 2012 - 2013

Week
Date
Hunt
Call
Name
State
Hunt
Call
Name
State

1
11/06/12
1

2

80 Mtr Foxhunt Schedule - Winter 2012 - 2013

Week
Date
Hunt
Call
Name
State
Hunt
Call
Name
State

1
11/08/12
1

2

Let's see here... the applications are rolling in.. so who gets the first two slots???.... hmmm????
Is your call in the running? It won't be unless you go to http://www.qrpfoxhunt.organd fill an application. Don't forget to put your blackout dates in, if you know them. TEAMS????? Anyone for teams?? The QRP CHEESEHEADS are in already.. they musta been working on it already. Are you up for a team? Them Cheeseheads are good... will the Pesky Texans just let 'em go?How about the Mutants? Or the AT Sprint Team? Or the TriBander Bunch?

--... ...--
Dale - WC7S in Wyhttp://www.qrpfoxhunt.org

9877. DCxxB Enclosures

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-23 02:01:43 UTC
From: Etienne Scott
Topic: 9875 Message: 9877

Bonjour Jean Paul -

QRPKits is again offering an enclosure for the DCxxB series - it appears to be a bit larger and comes with a crystal switching board - look for "Rock Hunter" here: http://www.qrpkits.com/dcxxb.html.

I just received mine and when Doug gets me the missing parts and I get it put together I will write up something on the DC40kits user group: http://groups.yahoo.com/group/dc40kits/.

à bientôt,
Etienne, K7ATN

--- In AT_Sprint@yahoogroups.com, "f6ddv" <f6ddv@...> wrote:
>
> Hello Steve
> I'm always happy to read your answers, this arrangement is very interesting but I do not understand all the operations correctly,
> your answers are clear and simple.
> As we succeed in finding a few of your "babies" is like winning the lottery ... HI
> I had hoped to change the DCxxB up a little in the frequencies above 20 m as well, but there were also concerns ...
> It's a shame because on the higher bands one single band 10, 12, 15, or 17 m would probably be very interesting, and the antenna easier.
> I am looking to see if the guys make personal changes, but I do not see anything, HI, this is probably a little complicated, unfortunately.
> I also sought if there was a manufacturer of these beautiful boxes DCxxB series, but I think it's over.
> but this is not the issue here, I sold pfr3 and I'll watch something else in Hendricks treasures and put me on the list
> that discusses this and other units that you have developed
> Thank you all and 73s
> jean paul F6DDV
> ----- Original Message -----
> From: Steven Weber
> To: AT_Sprint@yahoogroups.com
> Sent: Monday, October 22, 2012 3:28 AM
> Subject: Re: [AT_Sprint] How many ATS's and MT's out there ?
>
>
>
> The 3A uses a 40 Mhz reference oscillator which will only support frequencies up to 20 meters. Even if the DDS chip could support frequencies up to 28 MHz (which it can't) 10 and 12 meters is not possible with the transmitter design for stability reasons and very, very touchy output filters. In theory, 15 or 17M opereration is is possible with the required changes in reference oscillator frequency, DDS filter and software, but is not recommened

due to the layout of the output filter on the band modules, which have a bit more "blow-by" then is optimal.
>
> 72, Steve KD1JV
>
>
> Hello guys!
> I am a proud owner of an ATS-3A 20 30 40 and 80 m for a few months
> is it possible to sacrifice the 80 m band, which interests me less portable in nature, and and build printed circuit board
> for bands 10 12 15 or 17 m
> the circuit board does not seem complicated, but it is positive pictures somewhere to burning here?
> or OM who build and sell?
> I still do not know the technique, I still get the documentation and translated into French, so my question may be silly ...
> But international proverb says: ridicule does not kill
> but curiosity advances ...
> 73s all
> jean paul F6DDV
>

9878. Re: [AT_Sprint] DCxxB Enclosures

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-23 13:01:06 UTC
From: f6ddv
Topic: 9875 Message: 9878

OK Etienne
Thank you for this great information, I'm going to watch it
So there is more space, I hope that the box is not too
great because I already it here
It is this small box built exactly DCxxB series that interested me, the TX will really in the bag with the battery and paddle ...
this is amazing
I'll register again on this list to see if it is active with guys who are a few changes.
73s
jp F6DDV

----- Original Message -----
From: Etienne Scott
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, October 23, 2012 4:01 AM
Subject: [AT_Sprint] DCxxB Enclosures

Bonjour Jean Paul -

QRPKits is again offering an enclosure for the DCxxB series - it appears to be a bit larger and comes with a crystal switching board - look for "Rock Hunter" here:
http://www.qrpkits.com/dcxxb.html.

I just received mine and when Doug gets me the missing parts and I get it put together I will write up something on the DC40kits user group:
http://groups.yahoo.com/group/dc40kits/.

à bientôt,
Etienne, K7ATN

--- In AT_Sprint@yahoogroups.com, "f6ddv" <f6ddv@...> wrote:
>
> Hello Steve
> I'm always happy to read your answers, this arrangement is very interesting but I do not understand all the operations correctly,
> your answers are clear and simple.
> As we succeed in finding a few of your "babies" is like winning the lottery ... HI
> I had hoped to change the DCxxB up a little in the frequencies above 20 m as well, but there were also concerns ...
> It's a shame because on the higher bands one single band 10, 12, 15, or 17 m would probably be very interesting, and the antenna easier.
> I am looking to see if the guys make personal changes, but I do not see anything, HI, this is probably a little complicated, unfortunately.
> I also sought if there was a manufacturer of these beautiful boxes DCxxB series, but I think it's over.
> but this is not the issue here, I sold pfr3 and I'll watch something else in Hendricks

treasures and put me on the list
> that discusses this and other units that you have developed
> Thank you all and 73s
> jean paul F6DDV
> ----- Original Message -----
> From: Steven Weber
> To: AT_Sprint@yahoogroups.com
> Sent: Monday, October 22, 2012 3:28 AM
> Subject: Re: [AT_Sprint] How many ATS's and MT's out there ?
>
>
>
> The 3A uses a 40 Mhz reference oscillator which will only support frequencies up to 20 meters. Even if the DDS chip could support frequencies up to 28 MHz (which it can't) 10 and 12 meters is not possible with the transmitter design for stability reasons and very, very touchy output filters. In theory, 15 or 17M opereration is is possible with the required changes in reference oscillator frequency, DDS filter and software, but is not recommened due to the layout of the output filter on the band modules, which have a bit more "blow-by" then is optimal.
>
> 72, Steve KD1JV
>
>
> Hello guys!
> I am a proud owner of an ATS-3A 20 30 40 and 80 m for a few months
> is it possible to sacrifice the 80 m band, which interests me less portable in nature, and and build printed circuit board
> for bands 10 12 15 or 17 m
> the circuit board does not seem complicated, but it is positive pictures somewhere to burning here?
> or OM who build and sell?
> I still do not know the technique, I still get the documentation and translated into French, so my question may be silly ...
> But international proverb says: ridicule does not kill
> but curiosity advances ...
> 73s all
> jean paul F6DDV
>

9879. Re: [AT_Sprint] DCxxB Enclosures

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-24 16:25:27 UTC
From: f6ddv
Topic: 9875 Message: 9879

Hello Etienne
Yes, indeed, I saw these boxes In Doug ...
But they are not sold and are only a little larger than the original
I always wonder if it is possible there have one or DC10B DC12B DC15B or DC17B or with the same case as the original ...
I may be a little "weird", but on these small units that are in the pocket, I'm almost convinced that it would sell in a kit,
it out 1 W and a little more ... and they are complete with keyer circuit ... the price is reasonable.
73s
jp F6DDV
----- Original Message -----
From: Etienne Scott
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, October 23, 2012 4:01 AM
Subject: [AT_Sprint] DCxxB Enclosures

Bonjour Jean Paul -

QRPKits is again offering an enclosure for the DCxxB series - it appears to be a bit larger and comes with a crystal switching board - look for "Rock Hunter" here:
http://www.qrpkits.com/dcxxb.html.

I just received mine and when Doug gets me the missing parts and I get it put together I will write up something on the DC40kits user group:
http://groups.yahoo.com/group/dc40kits/.

à bientôt,
Etienne, K7ATN

--- In AT_Sprint@yahoogroups.com, "f6ddv" <f6ddv@...> wrote:
>
> Hello Steve
> I'm always happy to read your answers, this arrangement is very interesting but I do not understand all the operations correctly,
> your answers are clear and simple.
> As we succeed in finding a few of your "babies" is like winning the lottery ... HI
> I had hoped to change the DCxxB up a little in the frequencies above 20 m as well, but there were also concerns ...
> It's a shame because on the higher bands one single band 10, 12, 15, or 17 m would probably be very interesting, and the antenna easier.
> I am looking to see if the guys make personal changes, but I do not see anything, HI, this is probably a little complicated, unfortunately.
> I also sought if there was a manufacturer of these beautiful boxes DCxxB series, but I think it's over.
> but this is not the issue here, I sold pfr3 and I'll watch something else in Hendricks

treasures and put me on the list
> that discusses this and other units that you have developed
> Thank you all and 73s
> jean paul F6DDV
> ----- Original Message -----
> From: Steven Weber
> To: AT_Sprint@yahoogroups.com
> Sent: Monday, October 22, 2012 3:28 AM
> Subject: Re: [AT_Sprint] How many ATS's and MT's out there ?
>
>
>
> The 3A uses a 40 Mhz reference oscillator which will only support frequencies up to 20 meters. Even if the DDS chip could support frequencies up to 28 MHz (which it can't) 10 and 12 meters is not possible with the transmitter design for stability reasons and very, very touchy output filters. In theory, 15 or 17M opereration is is possible with the required changes in reference oscillator frequency, DDS filter and software, but is not recommened due to the layout of the output filter on the band modules, which have a bit more "blow-by" then is optimal.
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> 72, Steve KD1JV
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> Hello guys!
> I am a proud owner of an ATS-3A 20 30 40 and 80 m for a few months
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> the circuit board does not seem complicated, but it is positive pictures somewhere to burning here?
> or OM who build and sell?
> I still do not know the technique, I still get the documentation and translated into French, so my question may be silly ...
> But international proverb says: ridicule does not kill
> but curiosity advances ...
> 73s all
> jean paul F6DDV
>

9880. WTB: ATS4 or MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-24 21:57:47 UTC
From: Gerolf
Topic: 9880 Message: 9880

I am looking for an ATS4 or the MTR. Built or unbuilt does not matter to me ;)

Please drop a mail on g@....

73 DE DG6FL

9881. Flash of controller

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-27 03:05:00 UTC
From: Dale Putnam
Topic: 9881 Message: 9881

Are there step by step instructions of the flash process for the AT4, 4a, 4b? Or is that contained in the basic instructions from IAR?The files section has the files for each.
Thank you,

--... ...--
Dale - WC7S in Wy

9882. Re: [AT_Sprint] Flash of controller

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-27 12:55:15 UTC
From: AB5EU
Topic: 9881 Message: 9882

Hi Dale
I have this from my files - I'll look for other folks inputs but I would
think Steve's note below would be the same
Cheers, Trevor (I'm pullin'for ya 8^)...)
****
****

Maybe you need to start from scratch. This the procedure for the lastest
IAR
version. Earlier ones use pretty much the same sets and settings.

File > NEW > Workspace (workspace clears)

Project > Create new project > click OK. --- enter a name for the project
as the "save as" file name (ATS4something) > click Save

Right click on project name in "Files" window, in pop up, hover over "Add"
then click "Add files" in pop up, select ATS4ND.s43 as the file to add and
save.

The source file will now be loaded into the work space window.

Tool bar: Project > Options

General Options ----- Device >select MSP430F1232
Linker ----------Check "Override default program entry" ---check
"defined by application"
Debugger ----------select "FET debugger"
FET Debugger --------select TI LPT

Everything should be now set up. You should be able to click the "assemble"
icon in the tool bar and have no error messages. Then you can click on the
"download and debug" icon and it should download.

At least it did for me, starting as a blank workspace.

Good luck!
Steve KD1JV

On 10/26/2012 10:05 PM, Dale Putnam wrote:
>
> Are there step by step instructions of the flash process for the AT4,
> 4a, 4b? Or is that contained in the basic instructions from IAR?
> The files section has the files for each.
> Thank you,
>
>
> --... ...-- Dale - WC7S in Wy

>

9883. RE: [AT_Sprint] Flash of controller

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-27 13:38:28 UTC
From: Dale Putnam
Topic: 9881 Message: 9883

Thanks Trevor, I have everything working, except no menu... and that makes no sense. I'll start with these notes.. but I think I'll reload all the app first. Thanks, I couldn't find anything here.. I'll get back with you,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: ab5eu@wildblue.net
Date: Sat, 27 Oct 2012 07:55:15 -0500
Subject: Re: [AT_Sprint] Flash of controller

Hi Dale

I have this from my files - I'll look for other folks inputs but I
would think Steve's note below would be the same

Cheers, Trevor (I'm pullin'for ya 8^)...)

****
****

Maybe you need to start from scratch. This the procedure for the
lastest IAR

version. Earlier ones use pretty much the same sets and settings.

File > NEW > Workspace (workspace clears)

Project > Create new project > click OK. --- enter a name
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Linker ----------Check "Override default program entry"
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Debugger ----------select "FET debugger"

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Everything should be now set up. You should be able to click the
"assemble"

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"download and debug" icon and it should download.

At least it did for me, starting as a blank workspace.

Good luck!

Steve KD1JV

On 10/26/2012 10:05 PM, Dale Putnam wrote:

Are there step by step instructions of the flash process
for the AT4, 4a, 4b? Or is that contained in the basic
instructions from IAR?

The files section has the files for each.

Thank you,

--... ...--
Dale - WC7S in Wy

9884. For Dale - WC7S.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-27 03:22:18 UTC
From: Mike Olbrisch
Topic: 9881 Message: 9884

Dale.... I am sending through the reflector because for about 30 days now my direct E-mails are not getting through or something.

I have been asked to guide a hike for a reporter and photographer in a 5-summit assault in mid-November. These are the same guys I was guide for that ended up being this article.
http://www.tpwmagazine.com/archive/2009/aug/ed_1/index.phtml

Any chance of the ATS-4 being ready a little before that so I can integrate it to the rest of my gear and carry it along?

Hoping you get this - and thanks.

Mike - KD9KC.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Friday, October 26, 2012 21:05
To: AT Sprint

9885. WTB: Built MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-27 14:07:06 UTC
From: g4efe
Topic: 9885 Message: 9885

Hello folks - Just joined the group. I've been a life-long fan of QRP and would love to own one of the MTRs. Unfortunately I do not now have the ability to cope with SMDs so I'm wondering if anyone has a built MTR they would like to sell on to a loving,appreciative home! Boxed or not: it's not a problem, but it has to be fully functional. If you're in the USA, I have a contact over there who is happy to receive it on my behalf. I can pay with PayPal.

Thanks very much - Martin, G4EFE

9886. Tribander BFO Cal

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-27 17:32:17 UTC
From: k1thp
Topic: 9886 Message: 9886

I have just built a tribander and made it through the first Cal to set up the bands. I proceeded to the BFO cal and am stumped. I cannot hear a calibration tone. I hear if noise and the background changes as the BFO carrier passes thru the if passband but there is no test signal to generate the beat note. This leaves me dead in the water... Help.

Dave K1THP

9887. RE: [AT_Sprint] Tribander BFO Cal

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-27 19:51:44 UTC
From: Dale Putnam
Topic: 9886 Message: 9887

Hi Dave, Are you on Step 1, or step 6 on page 18?

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: karpiejd@...
Date: Sat, 27 Oct 2012 17:32:17 +0000
Subject: [AT_Sprint] Tribander BFO Cal

I have just built a tribander and made it through the first Cal to set up the bands. I proceeded to the BFO cal and am stumped. I cannot hear a calibration tone. I hear if noise and the background changes as the BFO carrier passes thru the if passband but there is no test signal to generate the beat note. This leaves me dead in the water... Help.

Dave K1THP

9888. Re: Tribander BFO Cal

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-28 00:22:00 UTC
From: k1thp
Topic: 9886 Message: 9888

Hi Dale, made it all the way thru Power Up and Test section. Got up to Step 6 in BFO test and don't hear anything but IF noise. Remember that I heard a tone when I built the MTR. Figured that Steve hadn't changed the procedure between rigs. What do you suggest?

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
> Hi Dave, Are you on Step 1, or step 6 on page 18?
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: karpiejd@...
> Date: Sat, 27 Oct 2012 17:32:17 +0000
> Subject: [AT_Sprint] Tribander BFO Cal
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>
>
>
> Dave K1THP
>

9889. Re: Tribander BFO Cal

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-28 00:23:05 UTC
From: k1thp
Topic: 9886 Message: 9889

Hi Dale, made it all the way thru Power Up and Test section. Got up to Step 6 in BFO test and don't hear anything but IF noise. Remember that I heard a tone when I built the MTR. Figured that Steve hadn't changed the procedure between rigs. What do you suggest?

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
>
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>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: karpiejd@...
> Date: Sat, 27 Oct 2012 17:32:17 +0000
> Subject: [AT_Sprint] Tribander BFO Cal
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>
> Dave K1THP
>

9890. Re: [AT_Sprint] Re: Tribander BFO Cal

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-28 01:10:54 UTC
From: Steven Weber
Topic: 9886 Message: 9890

Either the BFO isn't working or there is a problem (short) some where in the signal path between the 1st mixer and product detector or the DDS signal isn't getting to the 1st mixer. This is where it's really nice to have a Scope, as it would take about 2 mintutes to find were the problem is.

Steve

> Hi Dale, made it all the way thru Power Up and Test section. Got up to
> Step 6 in BFO test and don't hear anything but IF noise. Remember that I
> heard a tone when I built the MTR. Figured that Steve hadn't changed the
> procedure between rigs. What do you suggest?
>

9891. Re: Tribander BFO Cal

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-28 01:15:39 UTC
From: k1thp
Topic: 9886 Message: 9891

Hi Dale, made it all the way thru Power Up and Test section. Got up to Step 6 in BFO test and don't hear anything but IF noise. Remember that I heard a tone when I built the MTR. Figured that Steve hadn't changed the procedure between rigs. What do you suggest?

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
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> Hi Dave, Are you on Step 1, or step 6 on page 18?
>
> --... ...--
> Dale - WC7S in Wy
> To: AT_Sprint@yahoogroups.com
> From: karpiejd@...
> Date: Sat, 27 Oct 2012 17:32:17 +0000
> Subject: [AT_Sprint] Tribander BFO Cal
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>
>
>
> Dave K1THP
>

9892. Re: Tribander BFO Cal

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-28 01:43:52 UTC
From: k1thp
Topic: 9886 Message: 9892

Thanks Steve, are there any places you would suggest looking at from yhe top of the board? I have a Tek 2445 here but only one probe. Will have the other two on Monday.

Dave

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Either the BFO isn't working or there is a problem (short) some where in the
> signal path between the 1st mixer and product detector or the DDS signal
> isn't getting to the 1st mixer. This is where it's really nice to have a
> Scope, as it would take about 2 mintutes to find were the problem is.
>
> Steve
>
>
>
> > Hi Dale, made it all the way thru Power Up and Test section. Got up to
> > Step 6 in BFO test and don't hear anything but IF noise. Remember that I
> > heard a tone when I built the MTR. Figured that Steve hadn't changed the
> > procedure between rigs. What do you suggest?
> >
>

9893. RE: [AT_Sprint] WTB: Built MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-28 10:05:07 UTC
From: Martin Peters
Topic: 9885 Message: 9893

Update - A very kind member of the group has offered to build an MTR, should I be able to find one in kit form. So if you have a complete kit you wish to sell on, please get in touch.

Many thanks - Martin, G4EFE

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of g4efe
Sent: 27 October 2012 15:07
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] WTB: Built MTR

Hello folks - Just joined the group. I've been a life-long fan of QRP and would love to own one of the MTRs. Unfortunately I do not now have the ability to cope with SMDs so I'm wondering if anyone has a built MTR they would like to sell on to a loving,appreciative home! Boxed or not: it's not a problem, but it has to be fully functional. If you're in the USA, I have a contact over there who is happy to receive it on my behalf. I can pay with PayPal.

Thanks very much - Martin, G4EFE

Yahoo! Groups Links

9894. Re: [AT_Sprint] Re: Tribander BFO Cal

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-28 14:49:36 UTC
From: Steven Weber
Topic: 9886 Message: 9894

> Thanks Steve, are there any places you would suggest looking at from yhe
> top of the board? I have a Tek 2445 here but only one probe. Will have the
> other two on Monday.

Pin 6 of the SA612's would be a good place to start. One should have the DDS
LO on it and the other the BFO oscillator signal.

As always:
1. Check voltages to see if thier in the correct ball park.
2. Check to see if oscillators are working
3. Trace the signals and see if thier going where they are suppost to.

Steve

9895. Re: [AT_Sprint] WTB: Built MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-28 15:07:37 UTC
From: Peter Martin
Topic: 9885 Message: 9895

If I ever decide to get rid of my MTR, I'll keep you in mind.
With a name like yours I'll hardly forget!

Pete
G4ISJ
MTR #055

On Sun, Oct 28, 2012 at 10:05 AM, Martin Peters
<martin.peters@...>wrote:

> Update - A very kind member of the group has offered to build an MTR,
> should
> I be able to find one in kit form. So if you have a complete kit you wish
> to
> sell on, please get in touch.
>
> Many thanks - Martin, G4EFE
>
>

9896. RE: [AT_Sprint] WTB: Built MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-28 15:37:25 UTC
From: Martin Peters
Topic: 9885 Message: 9896

Thanks, Pete. I've been called 'Peter' by mistake for the the last 50 or so years. Maybe you've experienced the opposite.

Martin

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Peter Martin
Sent: 28 October 2012 15:08
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] WTB: Built MTR

If I ever decide to get rid of my MTR, I'll keep you in mind.
With a name like yours I'll hardly forget!

Pete
G4ISJ
MTR #055

On Sun, Oct 28, 2012 at 10:05 AM, Martin Peters <martin.peters@...>
wrote:

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Many thanks - Martin, G4EFE

9897. Re: Tribander BFO Cal

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-28 20:04:35 UTC
From: k1thp
Topic: 9886 Message: 9897

Steve, here is what I have found so far. U1 pin 6 shows 21.4K to gnd. U8 pin 19 to gnd is 140 Ohms. Outout of filter measured at C47 reads 136 Ohms to gnd. With power ON, the BFO is working. U7 is making 3.3V.
U11 output is good 60 MHz sine wave. There is no output at U8, pin 19. The DDS is not working.

Dave K1THP

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
>
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> > Thanks Steve, are there any places you would suggest looking at from yhe
> > top of the board? I have a Tek 2445 here but only one probe. Will have the
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> As always:
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>
> Steve
>

9898. Re: [AT_Sprint] Re: Tribander BFO Cal

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-29 22:19:15 UTC
From: Steven Weber
Topic: 9886 Message: 9898

Well then, you need to take a close look at the soldering to the DDS chip and it's associated parts to see if some thing didn't get soldered. Laying a piece of solder wick across the pins of the DDS chip and touching the soldering iron to the wick to heat is up can often fix soldering problems to the DDS chip.

Also check the data lines from the processor to the DDS chip, if it's not getting data, it won't work.
Steve

> Steve, here is what I have found so far. U1 pin 6 shows 21.4K to gnd. U8
> pin 19 to gnd is 140 Ohms. Outout of filter measured at C47 reads 136 Ohms
> to gnd. With power ON, the BFO is working. U7 is making 3.3V.
> U11 output is good 60 MHz sine wave. There is no output at U8, pin 19. The
> DDS is not working.
>

9899. Re: Tribander BFO Cal

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-30 01:41:15 UTC
From: k1thp
Topic: 9886 Message: 9899

U8 was the problem. The pin 1 thru 10 side is badly skewed on the board pads. I used a small wood dowel and poked the pins as I listened to the headphones. When I pushed down on the entire chip the rig came to life and died when I removed the pressure. I did a close visual exam with my visor and then pushed down on pin 10. The rig came back to life. I removed power and hit pin 10 with the soldering station iron with fine tip and some new solder and it's like it never happened. Receiver is very hot on all bands but I need to finish the alignment procedure.
Thanks Steve,
Dave

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Well then, you need to take a close look at the soldering to the DDS chip
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> > U11 output is good 60 MHz sine wave. There is no output at U8, pin 19. The
> > DDS is not working.
> >
>

9900. RMR Net - Hurricane reports??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-30 03:37:22 UTC
From: Dale Putnam
Topic: 9900 Message: 9900

The RMR net will be dedicated to lending any assistance or gathering hurricane reports from anyone. We will be starting a little earlier than normal, so tune by, 14.0625 starting around 1945z or so, This net will be more for sharing information, but if an emergancy comes on freq we will handle it first.Our prayers are with all those in the path of Irene.And with those affected by the 7+ earthquake on the West coast of Canada.Net Control will match your callin or check in speed, but may ask you to QRS for others to be able to hear you, and yes, this is an NAQCC net, but this time, I believe conditions will allow QRO operation. See you tomorrow.

--... ...--
Dale - WC7S in Wy

9901. RE: [AT_Sprint] RMR Net - Hurricane reports??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-30 03:39:11 UTC
From: Dale Putnam
Topic: 9900 Message: 9901

Make that Sandy .. not Irene...I shouldn't listen to the news and write... when it has been a long day.

--... ...--
Dale - WC7S in Wy
To: at_sprint@yahoogroups.com; elecraft@...; pfr3_group@yahoogroups.com; 4sqrp@...; qrp-l@...
CC: n4plk@...
From: daleputnam@...
Date: Mon, 29 Oct 2012 21:37:22 -0600
Subject: [AT_Sprint] RMR Net - Hurricane reports??

The RMR net will be dedicated to lending any assistance or gathering hurricane reports from anyone.
We will be starting a little earlier than normal, so tune by, 14.0625 starting around 1945z or so,
This net will be more for sharing information, but if an emergancy comes on freq we will handle it first.
Our prayers are with all those in the path of Irene.
And with those affected by the 7+ earthquake on the West coast of Canada.
Net Control will match your callin or check in speed, but may ask you to QRS for others to be able to hear you, and
yes, this is an NAQCC net, but this time, I believe conditions will allow QRO operation.
See you tomorrow.

--... ...--
Dale - WC7S in Wy

9902. Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-30 14:27:08 UTC
From: ve3wmb
Topic: 9902 Message: 9902

The title says it all ... any chance of a second run on the MTR kit this fall or next spring ?

Michael VE3WMB

9903. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-30 16:14:20 UTC
From: g0peb
Topic: 9902 Message: 9903

That would be great, I would definitely put my name on the list for one.

Robert
G0PEB

--- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@...> wrote:
>
> The title says it all ... any chance of a second run on the MTR kit this fall or next
> spring ?
>
> Michael VE3WMB
>

9904. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-30 15:46:06 UTC
From: kh2br
Topic: 9902 Message: 9904

I am also eager to get one, even a limited component kit like pc board and programed pic, I can get the rest of the parts.

Robert KH2BR

--- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@...> wrote:
>
> The title says it all ... any chance of a second run on the MTR kit this fall or next
> spring ?
>
> Michael VE3WMB
>

9905. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-30 18:49:44 UTC
From: TJ Campie
Topic: 9902 Message: 9905

I'd probably buy one too just for the heck of it. I've built 2 now but
they're too fun to stop :) Maybe one for 80 and 30m

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Oct 30, 2012 at 10:46 AM, kh2br <rholsti@...> wrote:

> **
>
>
> I am also eager to get one, even a limited component kit like pc board and
> programed pic, I can get the rest of the parts.
>
> Robert KH2BR
>
>
> --- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@...> wrote:
> >
> > The title says it all ... any chance of a second run on the MTR kit this
> fall or next
> > spring ?
> >
> > Michael VE3WMB
> >
>
>
>

9906. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 11:29:17 UTC
From: n1rx
Topic: 9902 Message: 9906

When I saw Steve at the local hamfest a couple weeks ago, he indicated there may be another run of MTRs. He is currently working on a redesign/improvement of another multiband rig, sold by QRPkits.com...
Stay tuned.
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@...> wrote:
>
> The title says it all ... any chance of a second run on the MTR kit this fall or next
> spring ?
>
> Michael VE3WMB
>

9907. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 13:52:51 UTC
From: bob_ak4lp
Topic: 9902 Message: 9907

Add my name to the list - I'd love to get an MTR!

Bob, AK4LP

--- In AT_Sprint@yahoogroups.com, "kh2br" <rholsti@...> wrote:
>
> I am also eager to get one, even a limited component kit like pc board and programed pic, I can get the rest of the parts.
>
> Robert KH2BR
>
> --- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@> wrote:
> >
> > The title says it all ... any chance of a second run on the MTR kit this fall or next
> > spring ?
> >
> > Michael VE3WMB
> >
>

9908. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 14:04:56 UTC
From: Steven Weber
Topic: 9902 Message: 9908

> When I saw Steve at the local hamfest a couple weeks ago, he indicated
> there may be another run of MTRs.

I think I'll wait until after the new year to do more MTR kits. I've been debating if I should have a box made for it like the ATS-4's. I probably should.

72, Steve KD1JV

9909. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 14:09:10 UTC
From: TJ Campie
Topic: 9902 Message: 9909

That would be pretty slick!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Oct 31, 2012 at 9:04 AM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> > When I saw Steve at the local hamfest a couple weeks ago, he indicated
> > there may be another run of MTRs.
>
> I think I'll wait until after the new year to do more MTR kits. I've been
> debating if I should have a box made for it like the ATS-4's. I probably
> should.
>
> 72, Steve KD1JV
>
>
>

9910. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 14:16:03 UTC
From: n4wdc@va.metrocast.net
Topic: 9902 Message: 9910

Steve,
A box would be great!
I'd love to buy another one since I gave the one I bought AWAY!
David N4WDC

On Wed 10/31/12 10:04 , "Steven Weber" steve.kd1jv@... sent:
> > When I saw Steve at the local hamfest a couple weeks ago, he
> indicated
> > there may be another run of MTRs.
> I think I'll wait until after the new year to do more MTR kits. I've
> been
> debating if I should have a box made for it like the ATS-4's. I
> probably
> should.
> 72, Steve KD1JV
>
>
> Links:
> ------
> [3]
> http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJmZmNqMHJsBF9TAzk3M
> zU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNudHBj
> BHN0aW1lAzEzNTE2OTIyOTk-[4]
> http://groups.yahoo.com/group/AT_Sprint/message/9902;_ylc=X3oDMTM1bTNtbGl2B
> F9TAzk3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAM5OTA4
> BHNlYwNmdHIEc2xrA3Z0cGMEc3RpbWUDMTM1MTY5MjI5OQR0cGNJZAM5OTAy[5]
> http://groups.yahoo.com/group/AT_Sprint/members;_ylc=X3oDMTJnbGpoaHRvBF9TAz
> k3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2b
> WJycwRzdGltZQMxMzUxNjkyMjk5?o=6[6]
> http://groups.yahoo.com/group/AT_Sprint;_ylc=X3oDMTJmZHNkMWRuBF9TAzk3MzU5Nz
> E0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0a
> W1lAzEzNTE2OTIyOTk-[7]
> http://groups.yahoo.com/;_ylc=X3oDMTJlczhvbDhyBF9TAzk3MzU5NzE0BGdycElkAzE4M
> DM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM1MTY5MjI5
> OQ--[11] http://docs.yahoo.com/info/terms/
>
>

9911. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 14:21:48 UTC
From: Wayne Dillon
Topic: 9902 Message: 9911

Please add my name to the list and yes, a box would be great.
72/3 es God Bless de Wayne - KC0PMH

--
http://www.qsl.net/kc0pmh/ Under construction but please visit anyway.
**
QRP - *EFFICIENCY AND SKILL, NOT POWER.*

I'm British by birth but American by CHOICE!

Jesus came to pay a debt He didn't owe because we owe a debt we cannot pay...

May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
1 Jn 2:17

http://www.4sqrp.com/index.php

4 State QRP Group NCS - 40m & 160m
FPQRP #342 (Flying Pigs QRP Club)
G-QRP-C #11504
NAQCC # 0759
QRP-ARCI #11505
SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9912. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 15:11:48 UTC
From: Håkan Olsson
Topic: 9902 Message: 9912

After having done no less than 132 SMFF activations out in the bush this summer, riding my bike to each and everyone of them, I still think that the ATS-4B is the ultimate /P-rig. At least for me, I would rather see an improved ATS-4 type rig (if that is possible) than than another MTR.

H?kan / SM6EQO

9913. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 17:24:41 UTC
From: Richard F5VJD
Topic: 9902 Message: 9913

Hi Steve

If you decide to go this route, would it be possible for those of us who bought on the first round to order a custom box - my own efforts at boxing up leave something to be desired:-) ?

72/3

Richard F5VJD

On 31/10/2012 15:04, Steven Weber wrote:
>
> > When I saw Steve at the local hamfest a couple weeks ago, he indicated
> > there may be another run of MTRs.
>
> I think I'll wait until after the new year to do more MTR kits. I've been
> debating if I should have a box made for it like the ATS-4's. I probably
> should.
>
> 72, Steve KD1JV
>
>

9914. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 19:26:01 UTC
From: k6jf_radio
Topic: 9902 Message: 9914

Bruce,

Did Steve mention which QRPKits multiband rig he is redesigning/improving? I am almost ready to get a Tribander, but if a change is in the works I would want to wait.

Jim K6JF

9915. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 20:14:45 UTC
From: k1thp
Topic: 9902 Message: 9915

Would it be possible for those of mus who built the original MTR to get a new enclosure when they are available or will the enclosure be limited to the number of new MTR kits? I am less than thrilled with my butchered up Altoids tin.
72, Dave K1THP
--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> > When I saw Steve at the local hamfest a couple weeks ago, he indicated
> > there may be another run of MTRs.
>
> I think I'll wait until after the new year to do more MTR kits. I've been
> debating if I should have a box made for it like the ATS-4's. I probably
> should.
>
> 72, Steve KD1JV
>

9916. ats-4b psk & cw daughter board

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 20:30:24 UTC
From: Juan Lamboy
Topic: 9916 Message: 9916

What ever happened to the psk & cw daughter board for the ats-4b ?

Juan

9917. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 20:35:40 UTC
From: Keith Hamilton
Topic: 9902 Message: 9917

Yes! A second run of the MTR would be wonderful! Missed out on the first!
Keith N8CEP

--- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
>
> Would it be possible for those of mus who built the original MTR to get a new enclosure when they are available or will the enclosure be limited to the number of new MTR kits? I am less than thrilled with my butchered up Altoids tin.
> 72, Dave K1THP
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@> wrote:
> >
> > > When I saw Steve at the local hamfest a couple weeks ago, he indicated
> > > there may be another run of MTRs.
> >
> > I think I'll wait until after the new year to do more MTR kits. I've been
> > debating if I should have a box made for it like the ATS-4's. I probably
> > should.
> >
> > 72, Steve KD1JV
> >
>

9918. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 20:52:33 UTC
From: f6ddv
Topic: 9902 Message: 9918

Hi Richard
I see boxes for mounting it is always a problem
I managed to get a 4-band TRX ATS-3A in its box of candies "zomboids"
and I must say I'm really happy to have this little gem here
I agreed to let my pfr3 with a friend who is also very happy ...
Ah Steve units are a pleasure to build.
with my 73
paul F6DDV
From: Richard F5VJD
To: AT_Sprint@yahoogroups.com
Cc: Steven Weber
Sent: Wednesday, October 31, 2012 6:24 PM
Subject: Re: [AT_Sprint] Re: Second run of MTR kit ?
Hi Steve
If you decide to go this route, would it be possible for those of us who bought on the first round to order a custom box - my own efforts at boxing up leave something to be desired :-) ?

72/3

Richard F5VJD

On 31/10/2012 15:04, Steven Weber wrote:

> When I saw Steve at the local hamfest a couple weeks ago, he indicated
> there may be another run of MTRs.

I think I'll wait until after the new year to do more MTR kits. I've been debating if I should have a box made for it like the ATS-4's. I probably should.

72, Steve KD1JV

9919. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 21:41:46 UTC
From: n1rx
Topic: 9902 Message: 9919

Not the Tribander. The PFR3a. I should have said "enhanced", not improved. There's nothing wrong with the current unit. But, he may be able to add some other features. I've said too much already... 8-)
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "k6jf_radio" <jimf53@...> wrote:
>
> Bruce,
>
> Did Steve mention which QRPKits multiband rig he is redesigning/improving? I am almost ready to get a Tribander, but if a change is in the works I would want to wait.
>
> Jim K6JF
>

9920. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 21:45:25 UTC
From: n1rx
Topic: 9902 Message: 9920

+1 for me also, Dave. I'd like to see a larger run of enclosures that could also accept the existing MTR rigs out there. Even if I had to get on a pre-order list, so that Steve could guage the size of the run. He wouldn't want to have to order more cases than needed, but the prices do drop the bigger the run. A run of cases for the ATS3Bs would be welcome by many also, I'd bet.
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
>
> Would it be possible for those of us who built the original MTR to get a new enclosure when they are available or will the enclosure be limited to the number of new MTR kits? I am less than thrilled with my butchered up Altoids tin.
> 72, Dave K1THP

9921. RE: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 22:47:02 UTC
From: Mike Olbrisch
Topic: 9902 Message: 9921

It probably is. I wish I had mine, there are several peaks too rugged for my FT-817 just begging for a lighter rig. Perhaps my ATS-4 will be done soon.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Håkan Olsson
Sent: Wednesday, October 31, 2012 09:12
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: Second run of MTR kit ?

After having done no less than 132 SMFF activations out in the bush this summer, riding my bike to each and everyone of them, I still think that the ATS-4B is the ultimate /P-rig. At least for me, I would rather see an improved ATS-4 type rig (if that is possible) than than another MTR.

Håkan / SM6EQO

Yahoo! Groups Links

9922. RE: [AT_Sprint] ats-4b psk & cw daughter board

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 22:48:26 UTC
From: Mike Olbrisch
Topic: 9916 Message: 9922

I too am interested in that - after I finally get my ATS-4 in my hands.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of Juan Lamboy
Sent: Wednesday, October 31, 2012 14:30
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] ats-4b psk & cw daughter board

What ever happened to the psk & cw daughter board for the ats-4b ?

Juan

9923. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-10-31 22:20:13 UTC
From: Robert Garcia
Topic: 9902 Message: 9923

I'm definitely in for one and the case.

Robert

On Oct 31, 2012, at 9:05 AM, Steven Weber <steve.kd1jv@...> wrote:

> When I saw Steve at the local hamfest a couple weeks ago, he indicated
> there may be another run of MTRs.

I think I'll wait until after the new year to do more MTR kits. I've been debating if I should have a box made for it like the ATS-4's. I probably should.

72, Steve KD1JV

9924. Re: [AT_Sprint] ats-4b psk & cw daughter board

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 01:23:30 UTC
From: Steven Weber
Topic: 9916 Message: 9924

```
>
> What ever happened to the psk & cw daughter board for the ats-4b ?
>
```

A couple of people have asked me that question recently and I have neglected to answer - sorry about that.

Well, I was having some trouble getting it to work the way I wanted it to, other things came up and there didn't seem like there was a whole lot of interest in it anyway, so is kinda just sitting here in limbo. Then there is a minor problem of how the heck to mount the daughter board - the best I could think of is using some double sided tape over some of the IC's on the main board.

But what really put an end to the efforts was after playing with it for a while, it seemed to be more gimmic than useful. I hate to disapoint those of you who might have been hoping for this, but it is unlikely I will persue it farther.

72, Steve

9925. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 01:35:56 UTC
From: Steven Weber
Topic: 9902 Message: 9925

> Not the Tribander. The PFR3a. I should have said "enhanced", not improved.
> There's nothing wrong with the current unit. But, he may be able to add
> some other features. I've said too much already... 8-)

Doug isn't going to like me saying this, but to end pointless speculation - we're adding a rotary encoder for tuning. Whether this is actually an improvement or not is yet to be seen, but too many die hards want a knob to be ignored.

Steve

9926. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 01:39:14 UTC
From: Steven Weber
Topic: 9902 Message: 9926

Yes, I figured there would be a bunch of you who would like a case. I'll probably get a 100 extra, assuming at least 50 of you are happy with the Altoids tin or haven't even opened the envelope the kit came in yet..

Steve

> Would it be possible for those of mus who built the original MTR to get a
> new enclosure when they are available or will the enclosure be limited to
> the number of new MTR kits? I am less than thrilled with my butchered up
> Altoids tin.

9927. RE: [AT_Sprint] ats-4b psk & cw daughter board

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 02:40:59 UTC
From: Mike Olbrisch
Topic: 9916 Message: 9927

Too bad Steve - with my CW being as poor as it is, I was hoping for some help. Guess I will just have to do it the old way - once my ATS-4 gets to me.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Wednesday, October 31, 2012 19:24
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] ats-4b psk & cw daughter board

>
> What ever happened to the psk & cw daughter board for the ats-4b ?
>

A couple of people have asked me that question recently and I have neglected

to answer - sorry about that.

Well, I was having some trouble getting it to work the way I wanted it to, other things came up and there didn't seem like there was a whole lot of interest in it anyway, so is kinda just sitting here in limbo. Then there is

a minor problem of how the heck to mount the daughter board - the best I could think of is using some double sided tape over some of the IC's on the main board.

But what really put an end to the efforts was after playing with it for a while, it seemed to be more gimmic than useful. I hate to disapoint those of

you who might have been hoping for this, but it is unlikely I will persue it

farther.

72, Steve

Yahoo! Groups Links

9928. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 03:33:07 UTC
From: mbhayden
Topic: 9902 Message: 9928
Attachments: 3 described; binary payloads are missing from this source WARC

I like using Altoids boxes. I also built my battery pack into one to match the MTR aside from color. My 3B is also in an Altoids tin. It's all beat up, but the radio still works fb, as new.

The Altoids seem to hold up well.

Mike
AK3F

9929. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 08:31:32 UTC
From: Adrian Hart
Topic: 9902 Message: 9929

Hi Steve

Put me down for one of whatever is the next batch of rigs! I do a lot of SOTA activating in Scotland. The PFR3 is my main rig for this. Would love to have an ATS-4 type rig or a MTR.

Thanks for the great rigs. Will probably get one of the new Hendricks kits as well when it's out. Like others on this group I just love building the rigs!

72

Adrian
MM0DHY

9930. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 13:03:52 UTC
From: ve3wmb
Topic: 9902 Message: 9930

Steve :

That is a great idea. Some of can solder just fine but we are a bit metal-working challenged ;-)

Meanwhile I'll start saving my pennies for an MTR & case.

Cheers,

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Yes, I figured there would be a bunch of you who would like a case. I'll
> probably get a 100 extra, assuming at least 50 of you are happy with the
> Altoids tin or haven't even opened the envelope the kit came in yet..
>
> Steve
>
>
> > Would it be possible for those of mus who built the original MTR to get a
> > new enclosure when they are available or will the enclosure be limited to
> > the number of new MTR kits? I am less than thrilled with my butchered up
> > Altoids tin.
>

9931. MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 13:26:59 UTC
From: wshogin
Topic: 9931 Message: 9931

I would also be interested in an mtr kit. Please add me to the list. I gave my ATS3 to a fellow ham who was in need of a small portable rig.

Scott N2ZEN

Sent from my iPod

9932. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 11:25:43 UTC
From: Bob Citronberg
Topic: 9902 Message: 9932

yessir list me for 1 rig and 2 boxes !!!!!...bob citronberg ki4ght

-----Original Message-----
From: Adrian Hart
Sent: Nov 1, 2012 4:31 AM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Second run of MTR kit ?

Hi Steve

?

Put me down for one of whatever is the next batch of rigs! I do a lot of SOTA activating in Scotland. The PFR3 is my main rig for this. Would love to have an ATS-4 type rig or a MTR.

Thanks for the great rigs. Will probably get one of the new Hendricks kits as well when it's out. Like others on this group I just love building the rigs!

?

72

?

Adrian

MM0DHY

9933. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 16:22:17 UTC
From: bob_ak4lp
Topic: 9902 Message: 9933

I would definitely be interested in the box, too. So please put me down for that as well.

Thanks,

Bob, AK4LP

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> > When I saw Steve at the local hamfest a couple weeks ago, he indicated
> > there may be another run of MTRs.
>
> I think I'll wait until after the new year to do more MTR kits. I've been
> debating if I should have a box made for it like the ATS-4's. I probably
> should.
>
> 72, Steve KD1JV
>

9934. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 18:33:18 UTC
From: dj0tk
Topic: 9902 Message: 9934

Hi Steve, I would like also to have an ATS-4.
Thanks,73 Ali TA1V

9935. RE: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 23:26:31 UTC
From: Martin Peters
Topic: 9931 Message: 9935

Hi folks - I'm new to the list, and posted a request for an MTR a week or so ago (no luck so far, BTW). I see the last several posts have been along the lines of 'Please put me down for an MTR'. Is this the mechanism to reserve one?

If so, please put me down for 1 MTR!

Or did I get the wrong end of the stick??

73 - Martin, G4EFE

9936. Re: [AT_Sprint] Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 23:44:39 UTC
From: Steven
Topic: 9902 Message: 9936

I'd also commit to an MTR and two boxes.

Thanks,
Steve K8IDN

Sent from my iPad

On Nov 1, 2012, at 12:22, "bob_ak4lp" <ak4lp@...> wrote:

> I would definitely be interested in the box, too. So please put me down for that as well.
>
> Thanks,
>
> Bob, AK4LP
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>>
>>> When I saw Steve at the local hamfest a couple weeks ago, he indicated
>>> there may be another run of MTRs.
>>
>> I think I'll wait until after the new year to do more MTR kits. I've been
>> debating if I should have a box made for it like the ATS-4's. I probably
>> should.
>>
>> 72, Steve KD1JV
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

9937. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-01 23:37:56 UTC
From: denisf6crp
Topic: 9902 Message: 9937

Very good news ! Please add me to the list to get one MTR
73 Denis F6CRP.

--- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@...> wrote:
>
> The title says it all ... any chance of a second run on the MTR kit this fall or next
> spring ?
>
> Michael VE3WMB
>

9938. RE: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 00:10:08 UTC
From: Dale Putnam
Topic: 9931 Message: 9938

You done good Martin! Steve is counting requests.. nows the time.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: martin.peters@ntlworld.com
Date: Thu, 1 Nov 2012 23:26:31 +0000
Subject: RE: [AT_Sprint] MTR list?

Hi folks - I'm new to the list, and posted a request for an MTR a week or

so ago (no luck so far, BTW). I see the last several posts have been along

the lines of 'Please put me down for an MTR'. Is this the mechanism to

reserve one?

If so, please put me down for 1 MTR!

Or did I get the wrong end of the stick??

73 - Martin, G4EFE

9939. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 00:15:27 UTC
From: Eric Castro (VA3AMX)
Topic: 9931 Message: 9939

I am in ... 1 MTR and 2 cases!

72/73
Eric - VA3AMX

9940. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 00:23:32 UTC
From: Robert
Topic: 9931 Message: 9940

I will take one MTR, and one box
When they become available
Bert

N0YJ

9941. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 00:29:59 UTC
From: John Evans - N0HJ
Topic: 9931 Message: 9941

Count me in - 1 MTR, 2 cases !!!

72
john - N0HJ

9942. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 00:38:12 UTC
From: Dan Birnbaum
Topic: 9931 Message: 9942

I would be in for 1 MTR case!

Dan
AD6JY
On Nov 1, 2012, at 5:10 PM, Dale Putnam wrote:

>
> You done good Martin! Steve is counting requests.. nows the time.
>
> --... ...-- Dale - WC7S in Wy
>
> To: AT_Sprint@yahoogroups.com
> From: martin.peters@...
> Date: Thu, 1 Nov 2012 23:26:31 +0000
> Subject: RE: [AT_Sprint] MTR list?
>
>
> Hi folks - I'm new to the list, and posted a request for an MTR a week or
> so ago (no luck so far, BTW). I see the last several posts have been along
> the lines of 'Please put me down for an MTR'. Is this the mechanism to
> reserve one?
>
> If so, please put me down for 1 MTR!
>
> Or did I get the wrong end of the stick??
>
> 73 - Martin, G4EFE
>
>
>
>

9943. Re: MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 00:40:25 UTC
From: scottg720
Topic: 9931 Message: 9943

I'd like an MTR + case.

73,
Scott, K1OA

> > You done good Martin! Steve is counting requests.. nows the time.
> >
> > --... ...-- Dale - WC7S in Wy
> >
> > To: AT_Sprint@yahoogroups.com
> > From: martin.peters@...
> > Date: Thu, 1 Nov 2012 23:26:31 +0000
> > Subject: RE: [AT_Sprint] MTR list?
> >
> >
> > Hi folks - I'm new to the list, and posted a request for an MTR a week or
> > so ago (no luck so far, BTW). I see the last several posts have been along
> > the lines of 'Please put me down for an MTR'. Is this the mechanism to
> > reserve one?
> >
> > If so, please put me down for 1 MTR!
> >
> > Or did I get the wrong end of the stick??
> >
> > 73 - Martin, G4EFE
> >
> >
> >
> >
>

9944. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 00:44:45 UTC
From: rOn
Topic: 9931 Message: 9944

Put me on list for 1 case.

rOn

_____
From: Dan Birnbaum <dancbirnbaum@...>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, November 1, 2012 8:38 PM
Subject: Re: [AT_Sprint] MTR list?

I would be in for 1 MTR case!

Dan
AD6JY

On Nov 1, 2012, at 5:10 PM, Dale Putnam wrote:

>
>
>You done good Martin! Steve is counting requests.. nows the time.
>
>--... ...--
Dale - WC7S in Wy
>
>
>
>_____
>To: AT_Sprint@yahoogroups.com
>From: martin.peters@...
>Date: Thu, 1 Nov 2012 23:26:31 +0000
>Subject: RE: [AT_Sprint] MTR list?
>
>
>Hi folks - I'm new to the list, and posted a request for an MTR a week or
>so ago (no luck so far, BTW). I see the last several posts have been along
>the lines of 'Please put me down for an MTR'. Is this the mechanism to
>reserve one?
>
>If so, please put me down for 1 MTR!
>
>Or did I get the wrong end of the stick??
>
>73 - Martin, G4EFE
>
>
>

>
>

9945. re: (AT_Sprint) MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 00:47:20 UTC
From: Joseph Trombino, Jr
Topic: 9945 Message: 9945

Not sure if Steve, KD1JV is keeping a list but I would love to have one case for the MTR rig.

And an ATS4B kit would be welcomed also.

73, Joe W2KJ
I QRP, therefore I am

9946. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 00:51:04 UTC
From: Robert Garcia
Topic: 9931 Message: 9946

I'll take an MTR and case.

K5DTE

On Nov 1, 2012, at 7:44 PM, rOn <w2ctx@yahoo.com> wrote:

Put me on list for 1 case.

rOn

From: Dan Birnbaum <dancbirnbaum@...>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, November 1, 2012 8:38 PM
Subject: Re: [AT_Sprint] MTR list?

I would be in for 1 MTR case!

Dan
AD6JY
On Nov 1, 2012, at 5:10 PM, Dale Putnam wrote:

You done good Martin! Steve is counting requests.. nows the time.

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: martin.peters@ntlworld.com
Date: Thu, 1 Nov 2012 23:26:31 +0000
Subject: RE: [AT_Sprint] MTR list?

Hi folks - I'm new to the list, and posted a request for an MTR a week or so ago (no luck so far, BTW). I see the last several posts have been along the lines of 'Please put me down for an MTR'. Is this the mechanism to reserve one?

If so, please put me down for 1 MTR!

Or did I get the wrong end of the stick??

73 - Martin, G4EFE

9947. Re: MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 01:11:26 UTC
From: katsumi.seto
Topic: 9931 Message: 9947

I wish one MTR with the case, too. de JA7QIL

9948. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 01:11:55 UTC
From: Lew Paceley
Topic: 9931 Message: 9948

Will it say "Marlboro" on it and look like a pack of smokes?

It could be Marlboro, MA,...am I right? J/K Steve.

Definitely in for an MTR and case.

73,
Lew
K7GO

On Thu, Nov 1, 2012 at 6:51 PM, Robert Garcia <me@...> wrote:

>
>
> I'll take an MTR and case.
>
> K5DTE
>
>
> On Nov 1, 2012, at 7:44 PM, rOn <w2ctx@...> wrote:
>
>
>
> Put me on list for 1 case.
>
> rOn
>
> ----------
> *From:* Dan Birnbaum <dancbirnbaum@...>
> *To:* AT_Sprint@yahoogroups.com
> *Sent:* Thursday, November 1, 2012 8:38 PM
> *Subject:* Re: [AT_Sprint] MTR list?
>
>
> I would be in for 1 MTR case!
>
> Dan
> AD6JY
> On Nov 1, 2012, at 5:10 PM, Dale Putnam wrote:
>
>
>
> You done good Martin! Steve is counting requests.. nows the time.
>
> --... ...-- Dale - WC7S in Wy
>

> ----------
> To: AT_Sprint@yahoogroups.com
> From: martin.peters@...
> Date: Thu, 1 Nov 2012 23:26:31 +0000
> Subject: RE: [AT_Sprint] MTR list?
>
>
> Hi folks - I'm new to the list, and posted a request for an MTR a week or
> so ago (no luck so far, BTW). I see the last several posts have been along
> the lines of 'Please put me down for an MTR'. Is this the mechanism to
> reserve one?
>
> If so, please put me down for 1 MTR!
>
> Or did I get the wrong end of the stick??
>
> 73 - Martin, G4EFE
>
>
>
>
>
>
>
>
>
>

9949. Re: [AT_Sprint] re: (AT_Sprint) MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 01:29:53 UTC
From: Yannick DEVOS (XV4Y)
Topic: 9945 Message: 9949

Hi,

Well this is just my own opinion, but if Steve follows the same procedure than last time, he does not like to take pre-orders or lists.
Once everything is ready, he will announce to the list that its time to order and you will have a few days to post your request.
But don't worry as he will explain things clearly for sure. I just think now is a bit early and he must be busy with other projects.
I think he does not like to give commitments for things he is not sure to do 100%, and this is a good manner. So if he is not sure about the availability date or the enclosure availability (and thus the price) he does not announce it.

However, I think expressing interest is always good because it helps him to decide on how to do things the best.

The MTR is a great rig and everyone that will have one should enjoy building and operating it.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 2 nov. 2012 à 07:47, Joseph Trombino, Jr a écrit :

> Not sure if Steve, KD1JV is keeping a list but I would love to have one case for the MTR rig.
>
> And an ATS4B kit would be welcomed also.
>
> 73, Joe W2KJ
> I QRP, therefore I am
>
> ----------
>
> Yahoo! Groups Links
>
>
>

9950. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 02:22:25 UTC
From: rasteenb
Topic: 9902 Message: 9950

Hi Steve:

I'd be interested in one MTR and one box to put it in.

Also, are there still plans for the ATS-4b PSK-31 capability down the road?

73,
Rob KA8JBY
another satisfied customer

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> > When I saw Steve at the local hamfest a couple weeks ago, he indicated
> > there may be another run of MTRs.
>
> I think I'll wait until after the new year to do more MTR kits. I've been
> debating if I should have a box made for it like the ATS-4's. I probably
> should.
>
> 72, Steve KD1JV
>

9951. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 02:24:06 UTC
From: Steven Weber
Topic: 9931 Message: 9951

Sorry, I don't do lists. Too much trouble to keep track of and half the time people change thier mind or get something else in the mean time. I got better things waste my time on :)

The only fair way to do this is every one takes thier chances when I finally announce they are available - and they are still months away, so be patient!!

Steve

> Hi folks - I'm new to the list, and posted a request for an MTR a week or
> so ago (no luck so far, BTW). I see the last several posts have been along
> the lines of 'Please put me down for an MTR'. Is this the mechanism to
> reserve one?
>

9952. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 02:26:48 UTC
From: Steven Weber
Topic: 9931 Message: 9952

Although it is nice to know for sure there are still a sh!t load of hams who still want one (or a second).

72, Steve

9953. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 02:48:48 UTC
From: Chris Maness
Topic: 9931 Message: 9953

I take it that this is the rig being referred to:

http://www.youtube.com/watch?v=Ffje8VVcUKk&feature=colike

Excuse my n00b question.

73 de KQ6UP

On Thu, Nov 1, 2012 at 7:26 PM, Steven Weber <steve.kd1jv@...> wrote:

> Although it is nice to know for sure there are still a sh!t load of hams
> who
> still want one (or a second).
>
> 72, Steve
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>
>

9954. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 09:55:08 UTC
From: f6ddv
Topic: 9931 Message: 9954

Hello Steve
Hello to all
I try to follow all the email exchanges and understand what is current (which is done or what will happen in the future)
I think I should understand that Steve is not a production unit by itself, it does so for his own pleasure, and it is nicely bombarded with requests
for these cute little toys, it's probably nice to feel useful to ham radio community who are passionate about building and QRP QSO,
but it can be a little scary ...
If you have time to show on one page history of small units with their cameras and then future projects?
I see that you know all this very well, but I'm a little lost, there is a lot of information on the net,
but not that abstract pictures on some pages in PDF into one document with one line for each unit expliquation
And what can still be achieved and what will happen more.
I do not know if there is somewhere the design of printed circuit boards of old platforms and if a manufacturer can do?
I always try to imagine a unit DCXXB for the higher bands, I have read the instructions in this wonderful little kit 1W
is an interesting project, but a little difficult, I have not seen on the list of guys concerned.
Here
I was talkative as a magpie! , But I can wait two weeks for an answer, I'm never in a hurry ... H. I.

73s all
Jean Paul F6DDV
----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Friday, November 02, 2012 3:24 AM
Subject: Re: [AT_Sprint] MTR list?

Sorry, I don't do lists. Too much trouble to keep track of and half the time
people change thier mind or get something else in the mean time. I got
better things waste my time on :)

The only fair way to do this is every one takes thier chances when I finally
announce they are available - and they are still months away, so be
patient!!

Steve

> Hi folks - I'm new to the list, and posted a request for an MTR a week or
> so ago (no luck so far, BTW). I see the last several posts have been along

> the lines of 'Please put me down for an MTR'. Is this the mechanism to
> reserve one?
>

9955. Re: MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 01:02:13 UTC
From: D.J. McBride
Topic: 9931 Message: 9955

Dear Steve,

I've been lurking here just hoping for the opportunity to someday
acquire aMTR or ATS.
I have greatly enjoyed and used my very early-issue PFR3 a great deal.
Therefore, please mark me down for an MTR + Case.
Thank you. I live in anticipation!
--
72/73,
Don K3RLL *<><> **_http://www.qsl.net/k3rll/_* <http://www.qsl.net/k3rll/>
FP #1843 | FISTS #13504cc | NAQCC #1905
PB #187 | QRPARCI #3881 | SKCC #3133c
K1 #2613 | KX1 #2396 | K2 #1569

9956. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 01:47:17 UTC
From: Robert Holsti
Topic: 9931 Message: 9956

I would like a MTR also,
Bob Kh2br

Sent from my iPad ☐

On Nov 1, 2012, at 5:10 PM, Dale Putnam <daleputnam@...> wrote:

> You done good Martin! Steve is counting requests.. nows the time.
>
> --... ...-- Dale - WC7S in Wy
>
> To: AT_Sprint@yahoogroups.com
> From: martin.peters@...
> Date: Thu, 1 Nov 2012 23:26:31 +0000
> Subject: RE: [AT_Sprint] MTR list?
>
>
> Hi folks - I'm new to the list, and posted a request for an MTR a week or
> so ago (no luck so far, BTW). I see the last several posts have been along
> the lines of 'Please put me down for an MTR'. Is this the mechanism to
> reserve one?
>
> If so, please put me down for 1 MTR!
>
> Or did I get the wrong end of the stick??
>
> 73 - Martin, G4EFE
>
>
>

9957. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 03:54:14 UTC
From: tdelozie
Topic: 9902 Message: 9957

I would be interested in an MTR and a custom case, please mark me down for one of each.
Tom KF5NWC

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> > When I saw Steve at the local hamfest a couple weeks ago, he indicated
> > there may be another run of MTRs.
>
> I think I'll wait until after the new year to do more MTR kits. I've been
> debating if I should have a box made for it like the ATS-4's. I probably
> should.
>
> 72, Steve KD1JV
>

9958. Re: MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 06:24:26 UTC
From: wheeler2roh
Topic: 9931 Message: 9958

Steve-

Just for the count I plan to pick up an MTR/Case the day they"re available. Have been patiently waiting, and SOO glad you're willing to do another MTR run--plus a case!

I've got an ATS rotary encoder kit I plan to try with the MTR (Petr sent me the ATS-4 and ATS-3 files to play with).

Wayne

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Sorry, I don't do lists. Too much trouble to keep track of and half the time
> people change thier mind or get something else in the mean time. I got
> better things waste my time on :)
>
> The only fair way to do this is every one takes thier chances when I finally
> announce they are available - and they are still months away, so be
> patient!!
>
> Steve
>
> > Hi folks - I'm new to the list, and posted a request for an MTR a week or
> > so ago (no luck so far, BTW). I see the last several posts have been along
> > the lines of 'Please put me down for an MTR'. Is this the mechanism to
> > reserve one?
> >
>

9959. There is no list.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 11:22:28 UTC
From: n1rx
Topic: 9959 Message: 9959

Just to be clear, before expectations get too high. There is no "list" for people to get on to reserve any of Steve's projects. There never has been. It is good to express interest, so he can gauge interest. But- he has never kept a list of names or call signs for -any- project run he has been preparing. It's just too much work, and not something he cares to do.

So, if you want to send a "me too" post, that's fine. Just do not expect it to reserve a place in line for anything. The only way to get in on an upcoming run (if any) is to watch the email list, and wait for an announcement from Steve that says he is close to accepting orders. Then continue to watch for specific instructions. (Then, of course, follow those instructions). That is the way it has always worked, and I expect will in the future.

Steve will correct me if I am worng on this.

72/73,
Bruce N1RX

9960. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 13:08:52 UTC
From: Gil WA5YKK
Topic: 9931 Message: 9960

Jean Paul;

Your one point, of Steve's "cute little toys" can be misconstrued, and in fact, were it not for him and engineers like him forming up these "toys", our exotic hobby of radio and all it is capable of would rely on whatever an Asian or other nationality felt would make for a nice sales gimmick for children. I never thought I'd see the day when the finest tube-type circuits would be displaced by semiconductors, then shrunk down until only a few specialists can come up with an item which might be used for the ham radio community.
Due to the need for parts that experimenters use to build their own ideas, I now receive real, paper-type magazines that list parts for setting up just such circuits, thus we can keep building our "toys" and get future generations to enjoy ideas that were considered items for the odd types of kids, not "football stars". My early teen years were when I started reading about radio, and as I went through high school, I endured some pretty bad taunting by guys who had NO idea of what made music come out of a broadcast radio! These days, those guys are grandfathers who buy "toys" for their grandchildren which have tiny earphones that plug into your ears, and they enjoy whatever form of entertainment they please, from a shirt pocket size of AM/FM battery powered radio that can even warn them of impending lethal storms!
Personally, I'll keep looking for the item that I can put a microdot of solder on, then call CQ to enjoy making contact with another enthusiast in a far away place!
Our next big hurdle isn't how tiny a rig is, it's simply being able to set up the antenna for it that some non-thinking type would object to, make us take "that eyesore piece of wire" down. Not so odd, there are "security cops" who got their badges after a foreign religious group did a very hideous act and killed a lot of people. We constantly battle someone, so I'm glad that Steve keeps on performing his wonders!

Have a fine day, I'm QRT for a couple of days, then there is much work to do at this QTH, as lame as I am with aging tine arthritis!

73's
Gil WA5YKK

On 11/2/2012 4:55 AM, f6ddv wrote:
>
> Hello Steve
> Hello to all
> I try to follow all the email exchanges and understand what is current
> (which is done or what will happen in the future)
> I think I should understand that Steve is not a production unit by
> itself, it does so for his own pleasure, and it is nicely bombarded

> with requests
> for these cute little toys, it's probably nice to feel useful to ham
> radio community who are passionate about building and QRP QSO,
> but it can be a little scary ...
> If you have time to show on one page history of small units with their
> cameras and then future projects?
> I see that you know all this very well, but I'm a little lost, there
> is a lot of information on the net,
> but not that abstract pictures on some pages in PDF into one document
> with one line for each unit expliquation
> And what can still be achieved and what will happen more.
> I do not know if there is somewhere the design of printed circuit
> boards of old platforms and if a manufacturer can do?
> I always try to imagine a unit DCXXB for the higher bands, I have read
> the instructions in this wonderful little kit 1W
> is an interesting project, but a little difficult, I have not seen on
> the list of guys concerned.
> Here
> I was talkative as a magpie! , But I can wait two weeks for an answer,
> I'm never in a hurry ... H. I.
>
> 73s all
> Jean Paul F6DDV
>
> ----- Original Message -----
> *From:* Steven Weber <mailto:steve.kd1jv@...>
> *To:* AT_Sprint@yahoogroups.com <mailto:AT_Sprint@yahoogroups.com>
> *Sent:* Friday, November 02, 2012 3:24 AM
> *Subject:* Re: [AT_Sprint] MTR list?
>
> Sorry, I don't do lists. Too much trouble to keep track of and
> half the time
> people change thier mind or get something else in the mean time. I
> got
> better things waste my time on :)
>
> The only fair way to do this is every one takes thier chances when
> I finally
> announce they are available - and they are still months away, so be
> patient!!
>
> Steve
>
>
>

9961. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 13:28:10 UTC
From: Hank Greeb
Topic: 9931 Message: 9961

Let the flames burn high! Anyone to contribute strong winds to fan them?

I personally think Steve's "toys" are quite remarkable, so maybe we should throw more flames on the gasoline, and start a real flame war about Mr. Weber's excellent designs.

Now, all sick humor aside, I think it doesn't matter if what we call the output of Steve's excellent design efforts! I have an original AT-Sprint, circa 2003, in excellent working order, which performed very well during the August NA-QSO Party - a "real" contest. For a writeup of what Steve's rigs can do under "real" contest conditions, get hold of a copy of the November/December issue National Contest Journal, available from ARRL very soon! (pardon the blatantly commercial plug!)

I personally am amazed at Steve's contribution to our Amateur Radio Service! Keep up the great work!

72/73 de n8xx Hg
QRP >99.44% of the time
On 11/2/2012 9:08 AM, Gil WA5YKK wrote:
>
> Jean Paul;
>
> Your one point, of Steve's "cute little toys" can be misconstrued,
> and in fact, were it not for him and engineers like him forming up
> these "toys", our exotic hobby of radio and all it is capable of would
> rely on whatever an Asian or other nationality felt would make for a
> nice sales gimmick for children. I never thought I'd see the day when
> the finest tube-type circuits would be displaced by semiconductors,
> then shrunk down until only a few specialists can come up with an item
> which might be used for the ham radio community.
> <snip>

9962. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 13:43:53 UTC
From: f6ddv
Topic: 9931 Message: 9962

Hello Gil
I did not understand everything ... I'm sorry, and I think some of my words are not included either ...
We must understand the idea more than words.
"I am as you slide with aging arthritis tine" then that I understood, and my wife too! , H. I.
Ahh, "small toys" so this must be understood in a simple way: it is for us, we are small players, I feel like a child see on the achievements of Steve,
I am a fan, I know the technical level of Steve, and I am amazed sometimes agrees to answer some questions on some sites ...
it really is a great opportunity for us ... you understand the nuance I think.
I already assembled and welded a pfr3 and some others, and my home made mount are very very ordinary side that these kits,
we learn a lot by building and trying to understand the schemas is a lot of luck and a great help,
because it is also the modern technology with surface components, and it is rare now for achievements as complete,
it is simply a chance to build it
73s
paul F6DDV

Jean Paul;

Your one point, of Steve's "cute little toys" can be misconstrued, and in fact, were it not for him and engineers like him forming up these "toys", our exotic hobby of radio and all it is capable of would rely on whatever an Asian or other nationality felt would make for a nice sales gimmick for children. I never thought I'd see the day when the finest tube-type circuits would be displaced by semiconductors, then shrunk down until only a few specialists can come up with an item which might be used for the ham radio community.
Due to the need for parts that experimenters use to build their own ideas, I now receive real, paper-type magazines that list parts for setting up just such circuits, thus we can keep building our "toys" and get future generations to enjoy ideas that were considered items for the odd types of kids, not "football stars". My early teen years were when I started reading about radio, and as I went through high school, I endured some pretty bad taunting by guys who had NO idea of what made music come out of a broadcast radio! These days, those guys are grandfathers who buy "toys" for their grandchildren which have tiny earphones that plug into your ears, and they enjoy whatever form of entertainment they please, from a shirt pocket size of AM/FM battery powered radio that can even warn them of impending lethal storms!
Personally, I'll keep looking for the item that I can put a microdot of solder on, then call CQ to enjoy making contact with another enthusiast in a far away place!
Our next big hurdle isn't how tiny a rig is, it's simply being able to set up the antenna for it that some non-thinking type would object to, make us take "that eyesore piece of wire" down. Not so odd, there are "security cops" who got their badges after a foreign religious group did a very hideous act and killed a lot of people. We constantly battle

someone, so I'm glad that Steve keeps on performing his wonders!

Have a fine day, I'm QRT for a couple of days, then there is much work to do at this QTH, as lame as I am with aging tine arthritis!

73's
Gil WA5YKK

On 11/2/2012 4:55 AM, f6ddv wrote:

Hello Steve
Hello to all
I try to follow all the email exchanges and understand what is current (which is done or what will happen in the future)
I think I should understand that Steve is not a production unit by itself, it does so for his own pleasure, and it is nicely bombarded with requests
for these cute little toys, it's probably nice to feel useful to ham radio community who are passionate about building and QRP QSO,
but it can be a little scary ...
If you have time to show on one page history of small units with their cameras and then future projects?
I see that you know all this very well, but I'm a little lost, there is a lot of information on the net,
but not that abstract pictures on some pages in PDF into one document with one line for each unit expliquation
And what can still be achieved and what will happen more.
I do not know if there is somewhere the design of printed circuit boards of old platforms and if a manufacturer can do?
I always try to imagine a unit DCXXB for the higher bands, I have read the instructions in this wonderful little kit 1W
is an interesting project, but a little difficult, I have not seen on the list of guys concerned.
Here
I was talkative as a magpie! , But I can wait two weeks for an answer, I'm never in a hurry ... H. I.

73s all
Jean Paul F6DDV
----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Friday, November 02, 2012 3:24 AM
Subject: Re: [AT_Sprint] MTR list?

Sorry, I don't do lists. Too much trouble to keep track of and half the time people change thier mind or get something else in the mean time. I got better things waste my time on :)

The only fair way to do this is every one takes thier chances when I finally announce they are available - and they are still months away, so be patient!!

Steve

9963. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 13:52:14 UTC
From: Bradley
Topic: 9902 Message: 9963

One MTR with case here please.

Brad KZ5W

--- In AT_Sprint@yahoogroups.com, "bob_ak4lp" <ak4lp@...> wrote:
>
> I would definitely be interested in the box, too. So please put me down for that as well.
>
> Thanks,
>
> Bob, AK4LP
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@> wrote:
> >
> > > When I saw Steve at the local hamfest a couple weeks ago, he indicated
> > > there may be another run of MTRs.
> >
> > I think I'll wait until after the new year to do more MTR kits. I've been
> > debating if I should have a box made for it like the ATS-4's. I probably
> > should.
> >
> > 72, Steve KD1JV
> >
>

9964. MTR or ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 14:59:37 UTC
From: Joseph Trombino, Jr
Topic: 9964 Message: 9964

Howdy Gang:

I have an MTR that plays beautifully but I simply can't get used to using little buttons for tuning.

I would gladly pay additional bucks for a knob tuned MTR or ATS4B...I know there is a module out there that allows the mod but I would be more comfortable if this feature were already integrated into the kit itself.

Guess I'm showing my age (grin) by wanting a knob tuned rig.

73, Joe W2KJ
I QRP, therefore I am

9965. Re: MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 17:27:14 UTC
From: ka5j
Topic: 9931 Message: 9965

Please add me to the list for an MTR and a case.

Dave KA5J

--- In AT_Sprint@yahoogroups.com, wshogin <scott.n2zen@...> wrote:
>
> I would also be interested in an mtr kit. Please add me to the list. I gave my ATS3 to a fellow ham who was in need of a small portable rig.
>
> Scott N2ZEN
>
>
> Sent from my iPod
>

9966. MTR boxes

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 17:45:58 UTC
From: William
Topic: 9966 Message: 9966

Steve,

I think making up extra boxes for the MTR is a great idea. Every time I try to drill an Altoids box I wind up putting the holes in the wrong place. I try to justify it as "air cooling" the finals.

Bill, wv1n

9967. Re: MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 17:43:05 UTC
From: Keith Hamilton
Topic: 9931 Message: 9967

Come on guys!!! Pay attention!!!

THERE IS NO LIST!

THERE IS NO MTR RADIO!!

--- In AT_Sprint@yahoogroups.com, "ka5j" <dg@...> wrote:
>
> Please add me to the list for an MTR and a case.
>
> Dave KA5J
>
> --- In AT_Sprint@yahoogroups.com, wshogin <scott.n2zen@> wrote:
> >
> > I would also be interested in an mtr kit. Please add me to the list. I gave my ATS3 to a fellow ham who was in need of a small portable rig.
> >
> > Scott N2ZEN
> >
> >
> > Sent from my iPod
> >
>

9968. Re: [AT_Sprint] Re: MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 18:35:00 UTC
From: Wayne Dillon
Topic: 9931 Message: 9968

Keith,
Take it easy man, chill out. We know there's no "list" it's just a way of expressing more than a passing interest in something which may happen, hopefully in the spring/summer of next year.
No need to blow a fuse...
72/3 es God Bless de Wayne - KC0PMH

On Fri, Nov 2, 2012 at 12:43 PM, Keith Hamilton <tuner@...>wrote:

> Come on guys!!! Pay attention!!!
>
> THERE IS NO LIST!
>
> THERE IS NO MTR RADIO!!
>
>
>
> --- In AT_Sprint@yahoogroups.com, "ka5j" <dg@...> wrote:
> >
> > Please add me to the list for an MTR and a case.
> >
> > Dave KA5J
> >
> > --- In AT_Sprint@yahoogroups.com, wshogin <scott.n2zen@> wrote:
> > >
> > > I would also be interested in an mtr kit. Please add me to the list. I
> gave my ATS3 to a fellow ham who was in need of a small portable rig.
> > >
> > > Scott N2ZEN
> > >
> > >
> > > Sent from my iPod
> > >
> >
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> ------------------------------------
>
> Yahoo! Groups Links
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>

--
http://www.qsl.net/kc0pmh/ Under construction but please visit anyway.
**
QRP - *EFFICIENCY AND SKILL, NOT POWER.*

I'm British by birth but American by CHOICE!

Jesus came to pay a debt He didn't owe because we owe a debt we cannot pay...

May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
1 Jn 2:17

http://www.4sqrp.com/index.php

4 State QRP Group NCS - 40m & 160m
FPQRP #342 (Flying Pigs QRP Club)
G-QRP-C #11504
NAQCC # 0759
QRP-ARCI #11505
SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

9969. Latest project - dual band (80/160) rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 18:52:49 UTC
From: Steven
Topic: 9969 Message: 9969

Okay, here's what I have been working on recently and is almost, but not quite finished. A 80/160 dual band rig with Direct conversion receiver and a DDS/PLL hybrd VFO using all through hole parts.

The DDS is a low frequency (219 kHz) signal produced by software and is used to tune an R/C VCO operating at 28 MHz and then divided down to the desired frequency.

The Direct conversion Rx is a high dynamic range type with no input tuning, other than the transmitter LPF.

The tranmsitter is my classic BS170 design, but with a variable PA supply built in so the power output can be adjusted.

Although the VCO operates at 28 MHz, operating above 40M probably wouldn't be a good idea and will not be tested.

Operation below 160 M, like the 500 kHz band should be possible.

The rig includes a LCD frequency read out, built in keyer and rotary tuning.

For some more info on the design see http://kd1jv.qrpradio.com/SDDCTR/SDDCTR.htm

I'm thinking of doing a very limited run of 50 kits for this, I imagine these would go quickly? I might be able to have these ready for sale by the end of the month. As for price, I haven't figured that out yet, but I would guess no more then $75.00

72, Steve KD1JV

9970. Re: [AT_Sprint] Latest project - dual band (80/160) rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 18:54:40 UTC
From: TJ Campie
Topic: 9969 Message: 9970

I'm new to your stuff Steve but you and I both know, if you offered 200 of these kits, they'd be gone in no time flat!

Sounds like a neat design.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Nov 2, 2012 at 1:52 PM, Steven <steve.kd1jv@...> wrote:

> **
>
>
> Okay, here's what I have been working on recently and is almost, but not
> quite finished. A 80/160 dual band rig with Direct conversion receiver and
> a DDS/PLL hybrd VFO using all through hole parts.
>
> The DDS is a low frequency (219 kHz) signal produced by software and is
> used to tune an R/C VCO operating at 28 MHz and then divided down to the
> desired frequency.
>
> The Direct conversion Rx is a high dynamic range type with no input
> tuning, other than the transmitter LPF.
>
> The tranmsitter is my classic BS170 design, but with a variable PA supply
> built in so the power output can be adjusted.
>
> Although the VCO operates at 28 MHz, operating above 40M probably wouldn't
> be a good idea and will not be tested.
>
> Operation below 160 M, like the 500 kHz band should be possible.
>
> The rig includes a LCD frequency read out, built in keyer and rotary
> tuning.
>
> For some more info on the design see
> http://kd1jv.qrpradio.com/SDDCTR/SDDCTR.htm
>
> I'm thinking of doing a very limited run of 50 kits for this, I imagine
> these would go quickly? I might be able to have these ready for sale by the
> end of the month. As for price, I haven't figured that out yet, but I would

> guess no more then $75.00
>
> 72, Steve KD1JV
>
>
>

9971. Re: [AT_Sprint] Latest project - dual band (80/160) rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 19:01:46 UTC
From: Bob Confrey
Topic: 9969 Message: 9971

Sounds great!.....I'm especially interested in something that could be used down on the new (soon) 472 - 479 KHz band. As far as I know, no one has anything inexpensive for that new band being offered.....Bob...WA1EDJ....

On Fri, Nov 2, 2012 at 2:52 PM, Steven <steve.kd1jv@...> wrote:
> Okay, here's what I have been working on recently and is almost, but not quite finished. A 80/160 dual band rig with Direct conversion receiver and a DDS/PLL hybrd VFO using all through hole parts.
>
> The DDS is a low frequency (219 kHz) signal produced by software and is used to tune an R/C VCO operating at 28 MHz and then divided down to the desired frequency.
>
> The Direct conversion Rx is a high dynamic range type with no input tuning, other than the transmitter LPF.
>
> The tranmsitter is my classic BS170 design, but with a variable PA supply built in so the power output can be adjusted.
>
> Although the VCO operates at 28 MHz, operating above 40M probably wouldn't be a good idea and will not be tested.
>
> Operation below 160 M, like the 500 kHz band should be possible.
>
> The rig includes a LCD frequency read out, built in keyer and rotary tuning.
>
> For some more info on the design see http://kd1jv.qrpradio.com/SDDCTR/SDDCTR.htm
>
> I'm thinking of doing a very limited run of 50 kits for this, I imagine these would go quickly? I might be able to have these ready for sale by the end of the month. As for price, I haven't figured that out yet, but I would guess no more then $75.00
>
> 72, Steve KD1JV
>
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> Yahoo! Groups Links
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9972. Re: [AT_Sprint] Re: MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 19:07:33 UTC
From: Lee Hiers
Topic: 9931 Message: 9972

On Fri, Nov 2, 2012 at 2:35 PM, Wayne Dillon <wayne.dillon@...> wrote:

Take it easy man, chill out. We know there's no "list" it's just a way of
> expressing more than a passing interest in something which may happen,
> hopefully in the spring/summer of next year.
> No need to blow a fuse...
>

Especially when Steve himself posted: * Although it is nice to know for
sure there are still a sh!t load of hams who still want one (or a second).*
*
*
Oh yeah, add me to the list!
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

9973. Re: [AT_Sprint] MTR or ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 20:34:23 UTC
From: Thomas Kuehl
Topic: 9964 Message: 9973

My vote would be for an ATS4 (or 5) with a non-detente, encoder tuning knob. The fact that the ATS4 covers 4 bands in a small package makes it ideal for most any ionospheric conditions.

If my ATS4 had a built-in, smooth tuning tune knob that I could grab my ultra-portable operation solution would be complete. I would be one happy camper (or hiker).

'73, Thomas - ac7a (Tucson)

From: "Joseph Trombino, Jr" <jotrom@...>
To: AT_Sprint@yahoogroups.com
Sent: Friday, November 2, 2012 7:59 AM
Subject: [AT_Sprint] MTR or ATS4B

Howdy Gang:

I have an MTR that plays beautifully but I simply can't get used to using little buttons for tuning.

I would gladly pay additional bucks for a knob tuned MTR or ATS4B...I know there is a module out there that allows the mod but I would be more comfortable if this feature were already integrated into the kit itself.

Guess I'm showing my age (grin) by wanting a knob tuned rig.

73, Joe W2KJ
I QRP, therefore I am

9974. Re: [AT_Sprint] MTR or ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 20:48:51 UTC
From: Steven Weber
Topic: 9964 Message: 9974

Little tiny rigs and knobs don't work well together.
If my ATS4 had a built-in, smooth tuning tune knob that I could grab my ultra-portable operation solution would be complete. I would be one happy camper (or hiker).

9975. MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 20:14:59 UTC
From: scottsa1ls
Topic: 8670 Message: 9975

Hi Steve, My name is Scotty. Call KG3W. I would like to have one of your next run of MTR kits with a box. Have been enjoying SOTA as a chaser and would like to try some local summits. Can't see dragging my K3 along. HI! The 20/40 would be perfect for CW SOTA. Please put me on the list cause I'd love to have one to build before spring. Thanks "72" Scotty. My e-mail is hisideatoo@...

9976. Re: MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 18:57:34 UTC
From: Ron Eike
Topic: 9931 Message: 9976

I would also be interested in an mtr kit. Please add me to the list.

Ron - KA3PSO

9977. Re: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 21:32:19 UTC
From: Chris Maness
Topic: 9931 Message: 9977

I think everyone missed Steve's announcement that he is not keeping a list
:o) People keep sending emails saying "add me to the list".

de Chris KQ6UP

On Thu, Nov 1, 2012 at 7:24 PM, Steven Weber <steve.kd1jv@...> wrote:

> Sorry, I don't do lists. Too much trouble to keep track of and half the
> time
> people change thier mind or get something else in the mean time. I got
> better things waste my time on :)
>
> The only fair way to do this is every one takes thier chances when I
> finally
> announce they are available - and they are still months away, so be
> patient!!
>
> Steve
>
> > Hi folks - I'm new to the list, and posted a request for an MTR a week or
> > so ago (no luck so far, BTW). I see the last several posts have been
> along
> > the lines of 'Please put me down for an MTR'. Is this the mechanism to
> > reserve one?
> >
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> Yahoo! Groups Links
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9978. Re: [AT_Sprint] Latest project - dual band (80/160) rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 21:33:56 UTC
From: Richard F5VJD
Topic: 9969 Message: 9978

Hi Steve

I know there is no list for this or any other of your offerings - but if you want to judge demand, I'm up for one of these.

72/3

Richard F5VJD

On 02/11/2012 19:52, Steven wrote:
>
> Okay, here's what I have been working on recently and is almost, but
> not quite finished. A 80/160 dual band rig with Direct conversion
> receiver and a DDS/PLL hybrd VFO using all through hole parts.
>
> The DDS is a low frequency (219 kHz) signal produced by software and
> is used to tune an R/C VCO operating at 28 MHz and then divided down
> to the desired frequency.
>
> The Direct conversion Rx is a high dynamic range type with no input
> tuning, other than the transmitter LPF.
>
> The tranmsitter is my classic BS170 design, but with a variable PA
> supply built in so the power output can be adjusted.
>
> Although the VCO operates at 28 MHz, operating above 40M probably
> wouldn't be a good idea and will not be tested.
>
> Operation below 160 M, like the 500 kHz band should be possible.
>
> The rig includes a LCD frequency read out, built in keyer and rotary
> tuning.
>
> For some more info on the design see
> http://kd1jv.qrpradio.com/SDDCTR/SDDCTR.htm
>
> I'm thinking of doing a very limited run of 50 kits for this, I
> imagine these would go quickly? I might be able to have these ready
> for sale by the end of the month. As for price, I haven't figured that
> out yet, but I would guess no more then $75.00
>
> 72, Steve KD1JV
>
>

9979. Working Altoids Tins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-02 23:58:34 UTC
From: WA0ITP
Topic: 9979 Message: 9979

I recommend not drilling Altoids or other small thin tins. It's dangerous in my opinion, is waay to much work, and usually produces unsatisfactory results. Brad point or sheet metal bits do the best job, but it's difficult to back up and hold the the tins properly. I've even tried filling them with water and placed them in the freezer overnight, then drilled down into the ice.

IMHO it's far better to punch the tins instead. Here's a tutorial on that process. I hope it helps encourage the use of this simple, safe, and easy method.. http://www.wa0itp.com/altoids_tutorial.pdf

---
I love this radio stuff !
72 WA?ITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "William" <fretjock@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Friday, November 02, 2012 12:45 PM
Subject: [AT_Sprint] MTR boxes

| Steve,
|
| I think making up extra boxes for the MTR is a great idea. Every time I try to drill an Altoids box I wind up putting the holes in the wrong place. I try to justify it as "air cooling" the finals.
|
| Bill, wv1n
|
|
|
| ---
|
| Yahoo! Groups Links
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|

9980. Re: [AT_Sprint] Latest project - dual band (80/160) rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-03 00:15:53 UTC
From: WA0ITP
Topic: 9969 Message: 9980

Oh Man! What a cool concept. I'm going to lose a lot of sleep trying
to be in on the order for this one.

I love this radio stuff !
72 WA?ITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "Steven" <steve.kd1jv@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Friday, November 02, 2012 1:52 PM
Subject: [AT_Sprint] Latest project - dual band (80/160) rig

| Okay, here's what I have been working on recently and is almost, but
not quite finished. A 80/160 dual band rig with Direct conversion
receiver and a DDS/PLL hybrd VFO using all through hole parts.
|
| The DDS is a low frequency (219 kHz) signal produced by software and
is used to tune an R/C VCO operating at 28 MHz and then divided down
to the desired frequency.
|
| The Direct conversion Rx is a high dynamic range type with no input
tuning, other than the transmitter LPF.
|
| The tranmsitter is my classic BS170 design, but with a variable PA
supply built in so the power output can be adjusted.
|
| Although the VCO operates at 28 MHz, operating above 40M probably
wouldn't be a good idea and will not be tested.
|
| Operation below 160 M, like the 500 kHz band should be possible.
|
| The rig includes a LCD frequency read out, built in keyer and rotary
tuning.
|
| For some more info on the design see
http://kd1jv.qrpradio.com/SDDCTR/SDDCTR.htm
|
| I'm thinking of doing a very limited run of 50 kits for this, I
imagine these would go quickly? I might be able to have these ready
for sale by the end of the month. As for price, I haven't figured that
out yet, but I would guess no more then $75.00
|

```
| 72, Steve KD1JV
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| Yahoo! Groups Links
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9983. Re: MTR or ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-03 02:49:41 UTC
From: radio_kx0r
Topic: 9964 Message: 9983

All,

If you want a knob and more features, the KX1 is nice. But the ATS rigs have a better receiver, more power out, are smaller and lighter, and are much more efficient. I almost never use my KX1 any more... I always grab the ATS-3B.

I got to try a KX3 recently, took it to the same site I used for the Bumblebee event this summer, and it blew me away with its performance and features - but it's big, heavy, and relatively battery-hungry. If you want all that nice stuff, get one.

The ATS rigs fill the need for a rig you can carry in a pack when you've already got too much gear, and for some of us, maybe we're getting too old to carry what we carried when we were 25 or 30.

I took my ATS-3B to several remote, high backcountry lakes in the Mount Zirkel Wilderness of northern CO this fall, put up big, high loop antennas - both horizontal and vertical - and all I had to do was choose a clear frequency, call CQ once or twice, and ragchew. The buttons are a little frustrating, but I think that Direct Frequency Entry (DFE) helps move around the band - like when you start out at 14.060 and then decide to listen to 14.010, etc.

Backpacking is so weight sensitive that I can't really face taking a much larger rig in for 8 or 9 miles of rough trails, some over 11,000 feet, up near the Divide where the air is thin and I need some energy left over to set up camp, catch fish, and get the big antenna up before dark - and I'm already carrying about as much fishing gear as radio gear. SOTA on high peaks - similar issues. This summer I stopped carrying feedline - it isn't worth the hassle - just wire-feed the antenna, whether unbalanced or balanced.

I'm afraid Steve is right - to compromise the ATS rigs with more features and more stuff defeats the purpose. On some of the trips I take - a knob or encoder might get broken in the pack, which already is full of important stuff like food, clothing, sleeping pad, water, pump, etc. The really important issues are the antenna and the tuner.

I don't think I've ever had so much fun with radio as I had this summer-fall at the lakes. This September, when the nights got longer, and the temperature starting going below freezing at 10,500 feet, I was in the tent, on 30 and 40M with the ATS-3B until I was too sleepy to operate, and the next day I was sitting outside in the sun, under a huge 40M loop/20M bisquare, working another QRP station across the Divide somewhere far to the East! This is so cool...

The ATS experience is one of biggest surpises I've had getting older. The ATS rigs have changed the game, because the tiny size and weight make it practical to take an HF radio so far away from the trailhead, and so high.

Steve designed the ATS radios for his trips - he knows.

Thanks Steve!

KX0R
George/Carey

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Little tiny rigs and knobs don't work well together.
> If my ATS4 had a built-in, smooth tuning tune knob that I could grab my ultra-portable operation solution would be complete. I would be one happy camper (or hiker).
>

9984. Re: [AT_Sprint] MTR or ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-03 03:28:00 UTC
From: Thomas Kuehl
Topic: 9964 Message: 9984

Okay Steve, that's understandable.

I was tuning up and down 20, 30 and 40 meters tonight using my ATS4 up/down switches. I really don't object to the switches other than the tuning is slow when your trying to scan the band for stations. Indeed the slow tuning rate makes for easier tuning when approaching a target station, but sometimes it would be nice to be able to move around faster and not have to resort to the DFE function.

Here's my alternate idea - How about a 1x/10x tune rate push button right next to the up/down switches? One could cruise the band in 10x mode when scanning the band and then hit the push button dropping the rate down to 1x as a station of interest is tuned across. If the operator wanted to tune elsewhere on the band, they would simply hit the 1x/10x button again and knock the tune rate back to turbo.

Maybe 1x/5x would be better.

'73, Thomas - ac7a (Tucson)

From: Steven Weber <steve.kd1jv@gmail.com>
To: AT_Sprint@yahoogroups.com
Sent: Friday, November 2, 2012 8:48 PM
Subject: Re: [AT_Sprint] MTR or ATS4B

□
Little tiny rigs and
knobs don't work well together.
If my ATS4 had a built-in, smooth tuning tune knob that I could grab my ultra-portable operation solution would be complete. I would be one happy camper (or hiker).
>
>

9985. Re: [AT_Sprint] MTR or ATS4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-03 10:06:12 UTC
From: Lee Hiers
Topic: 9964 Message: 9985

On Fri, Nov 2, 2012 at 11:28 PM, Thomas Kuehl <qrp_op@...> wrote:

Here's my alternate idea - How about a 1x/10x tune rate push button right
> next to the up/down switches?
>

Haven't some folks modified the firmware on some of the ATS rigs? That sounds like something that could be done with the software for existing ATS rigs. For instance, I never use the CW memories...perhaps that functionality could be replaced with some code allowing a faster tuning rate - maybe even have it so after the Up/Down buttons are pressed and held for a second or two the tuning rate increases. I think it would be nice to have the option, but I'm not really bothered too much by the current tuning rate, except when band activity is really low....and DFE takes care of the big jumps. Just food for thought/disccussing.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

9986. 80-160 Dual band tranceiver with DDS AT90S2313 uP

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-03 13:03:45 UTC
From: jor
Topic: 9986 Message: 9986

Hi Steve,
Interesting project the dual band 80/160 QRP transceiver.
In the past I test the DDS design trom PA0KLT with the AT90S2313 microproseccor and thad worked fine. Also OM PAo2OHH used this principle in his design.
http://www.qsl.net/pa2ohh/04dds1.htm

I found a litle problem when multiplier the ref frequentie from the DDS with a 4060 PLL.
There is a jitter on the referentie and will be multiplied also.
It can be heard on the 14MHz VCO output when listing on a receiver.

I am interested to hear your jitter results with a PLL and VCO.
May be the jitter can be ignored with a mixing VFO

Anyhow I like the simple uP DDS design from PAoKLT.

73' Joris PE1KTH

9987. FOX FOXHUNT SEASON OPENER

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-03 13:19:27 UTC
From: Dale Putnam
Topic: 9987 Message: 9987

We all are.. I believe.. ready to HUNT the wily fox... AND with the changes this year.. we have the blessing of the Game Warden to proceed... in the 40 acre woods... on Tuesday.and the 80 acre season opener will be Thursday. I'm watching very close for the two FOXii to announce soon.. Yes.. this will be election night.. so among the election returns, let's find the FOXII and have a great hunt!! May the Propagation be ever in your favor
Your scorekeeper
--... ...--
Dale - WC7S in Wyhttp://www.qrpfoxhunt.org

>
> I'm ready to HUNT!
>

9988. Re: [AT_Sprint] 80-160 Dual band tranceiver with DDS AT90S2313 uP

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-03 16:32:46 UTC
From: Steven Weber
Topic: 9986 Message: 9988

Jor,

I'm clocking the processor at 20 MHz and have a 9 instruction accumlator loop, which is equivalent to a 2.222,222 MHz clock frequency. I use the full 8 bit sine table and D/A. Operating at 200 kHz, it produces a nice, clean sine wave after minimal low pass filtering. By using an output of 1/10th the clock very few of the sine steps are skipped when reproducing the wave form.

Another difference is I'm not using the processor to do anything but the signal generation. Therefore, I can run the accumulator as fast as it can go, without any interuptions except when the frequency is to be changed. By using a fast serial port for communications, I can send the 3 bytes needed for frequency change very quickly and minimize the time the processor isn't producing a signal output.

The weak link in my design is the R/C VCO in the 74HC4046 chip. A L/C VCO would likely have less phase noise and jitter, but after being divided by 8 or 16, the R/C VCO sounds clean and is definately suitable for CW work. I should try using it to tune in some PSK stations and see if there is any problem decoding.

Although the R/C VCO isn't ideal, it does have the advantage of an inherent wide tuning range and is more or less idiot proof, in that it doesn't have to be pre-adjusted to be in proper frequency range, which can sometimes be hard to do with a L/C VCO if you don't have a frequency counter.

72, Steve KD1JV

> In the past I test the DDS design trom PA0KLT with the AT90S2313
> microproseccor and thad worked fine. Also OM PAo2OHH used this principle
> in his design.
> http://www.qsl.net/pa2ohh/04dds1.htm
>
> I found a litle problem when multiplier the ref frequentie from the DDS
> with a 4060 PLL.
> There is a jitter on the referentie and will be multiplied also.
> It can be heard on the 14MHz VCO output when listing on a receiver.
>
> I am interested to hear your jitter results with a PLL and VCO.
> May be the jitter can be ignored with a mixing VFO

9989. Re: Latest project - dual band (80/160) rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-04 00:57:57 UTC
From: David
Topic: 9969 Message: 9989

Looks like a very interesting project Steve, I am interested to know why you chose to use the Atmel mpus for this one rather than your usual MSP430?
Regards, Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Okay, here's what I have been working on recently and is almost, but not quite finished. A 80/160 dual band rig with Direct conversion receiver and a DDS/PLL hybrd VFO using all through hole parts.
>
> The DDS is a low frequency (219 kHz) signal produced by software and is used to tune an R/C VCO operating at 28 MHz and then divided down to the desired frequency.
>
> The Direct conversion Rx is a high dynamic range type with no input tuning, other than the transmitter LPF.
>
> The tranmsitter is my classic BS170 design, but with a variable PA supply built in so the power output can be adjusted.
>
> Although the VCO operates at 28 MHz, operating above 40M probably wouldn't be a good idea and will not be tested.
>
> Operation below 160 M, like the 500 kHz band should be possible.
>
> The rig includes a LCD frequency read out, built in keyer and rotary tuning.
>
> For some more info on the design see http://kd1jv.qrpradio.com/SDDCTR/SDDCTR.htm
>
> I'm thinking of doing a very limited run of 50 kits for this, I imagine these would go quickly? I might be able to have these ready for sale by the end of the month. As for price, I haven't figured that out yet, but I would guess no more then $75.00
>
> 72, Steve KD1JV
>

9990. Re: [AT_Sprint] Re: Latest project - dual band (80/160) rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-04 02:14:02 UTC
From: Steven Weber
Topic: 9969 Message: 9990

Thanks. The MSP's are only available in SMT, and I wanted this to be an all-through-hole project. Plus I have a libary of AVR routines to re-use, making firmware development reasonably quick.

72, Steve

> Looks like a very interesting project Steve, I am interested to know why
> you chose to use the Atmel mpus for this one rather than your usual
> MSP430?
> Regards, Dave VK2DDJ

9991. Re: Latest project - dual band (80/160) rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-04 12:45:03 UTC
From: Yannick
Topic: 9969 Message: 9991

Hi Steve,

The MSP430G series are available in DIP form factor and are really similar to the ATTiny Series. These are the ones usable with the LaunchPad. The more powerful as far as I know is the MSP430G2553 with 16kB flash and (only) 512B SRAM.
The MSP430G2553 can use a 32KHz xtal clock and so been used as a RTC.
I have developed a code for a WSPR autonomous beacon with it :
http://xv4y.radioclub.asia/2012/10/18/balise-wspr-autonome-avec-msp430-le-code-source/

However that's true Atmel's offer in DIP package is broader with the ATMega328 featuring more I/O, 32k flash, 2k SRAM and 1k EEPROM...

73,
Yan.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Thanks. The MSP's are only available in SMT, and I wanted this to be an
> all-through-hole project. Plus I have a libary of AVR routines to re-use,
> making firmware development reasonably quick.
>
> 72, Steve
>
> > Looks like a very interesting project Steve, I am interested to know why
> > you chose to use the Atmel mpus for this one rather than your usual
> > MSP430?
> > Regards, Dave VK2DDJ
>

9992. Re: 80-160 Dual band tranceiver with DDS AT90S2313 uP

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-04 17:44:12 UTC
From: jor
Topic: 9986 Message: 9992

Steve,

I understand your explenation, It will be a usefull VFO for CW and give a beter sinus when the output is devided.(Lower noise to)
I am interested in the results.

In Photos PE1KTH map the schematic off the PAoKLT design 2 pages off my artikel in the Dutch QRP Newsletter in 2005.
On the right PCB the PLL with the HCT9046A
On the scoop de sinus and the spectrum.

About the 74HC4046 PLL there is a inproved one 74HCT9046A avaleble by MOUSER in DIL and SSOP. euro 2.13. one off.

http://nl.mouser.com/ProductDetail/NXP-Semiconductors/74HCT9046AN112/?qs=sGAEpiMZZMuVnCuI0aQamNA0WbGoTWKBqyRfruzi8j8%3d

In discusion with TON PAoKLT some time ago I ask him for other processors and he told me thad the Atmel controller is the best for generating because of internal functions/register.

73' Joris PE1KTH

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Jor,
>
> I'm clocking the processor at 20 MHz and have a 9 instruction accumlator
> loop, which is equivalent to a 2.222,222 MHz clock frequency. I use the full
> 8 bit sine table and D/A. Operating at 200 kHz, it produces a nice, clean
> sine wave after minimal low pass filtering. By using an output of 1/10th the
> clock very few of the sine steps are skipped when reproducing the wave form.
>
> Another difference is I'm not using the processor to do anything but the
> signal generation. Therefore, I can run the accumulator as fast as it can
> go, without any interuptions except when the frequency is to be changed. By
> using a fast serial port for communications, I can send the 3 bytes needed
> for frequency change very quickly and minimize the time the processor isn't
> producing a signal output.
>
> The weak link in my design is the R/C VCO in the 74HC4046 chip. A L/C VCO
> would likely have less phase noise and jitter, but after being divided by 8
> or 16, the R/C VCO sounds clean and is definately suitable for CW work. I
> should try using it to tune in some PSK stations and see if there is any
> problem decoding.

>
> Although the R/C VCO isn't ideal, it does have the advantage of an inherent
> wide tuning range and is more or less idiot proof, in that it doesn't have
> to be pre-adjusted to be in proper frequency range, which can sometimes be
> hard to do with a L/C VCO if you don't have a frequency counter.
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> 72, Steve KD1JV
>
> > In the past I test the DDS design trom PA0KLT with the AT90S2313
> > microproseccor and thad worked fine. Also OM PAo2OHH used this principle
> > in his design.
> > http://www.qsl.net/pa2ohh/04dds1.htm
> >
> > I found a litle problem when multiplier the ref frequentie from the DDS
> > with a 4060 PLL.
> > There is a jitter on the referentie and will be multiplied also.
> > It can be heard on the 14MHz VCO output when listing on a receiver.
> >
> > I am interested to hear your jitter results with a PLL and VCO.
> > May be the jitter can be ignored with a mixing VFO
>

9993. See the PAoKLT DDS test setup in Photos PE1KTH Map

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-04 18:16:25 UTC
From: jor
Topic: 9993 Message: 9993

See the PAoKLT uP DDS test setup in Photos PE1KTH Map

73' Joris PE1KTH

9994. Re: [qfox] FOX FOXHUNT SEASON OPENER

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-04 18:31:50 UTC
From: qrpnut5@gmail.com
Topic: 9994 Message: 9994

Dear Friend Dale and Gang,
Best wishes indeed Poppa Fox set up here in central New Mexico, about 28 miles East of Albuquerque and up nearly 7000' above sea level.
My antenna will be the usual inverted vee, only 10' lower in the centre and oriented completely different. I think my rig for this opening evening will be the ATS-3a.
Anyway, good luck one and all!
73,
Doc/K0EVZ

Sent from my Verizon Wireless 4G LTE smartphone

Dale Putnam wrote:

We all are.. I believe.. ready to HUNT the wily fox... AND with the changes this year..
we have the blessing of the Game Warden to proceed... in the 40 acre woods... on Tuesday.
and the 80 acre season opener will be Thursday.
I'm watching very close for the two FOXii to announce soon..
Yes.. this will be election night.. so among the election returns, let's find the FOXII and have a great hunt!!

May the Propagation be ever in your favor

Your scorekeeper
--... ...-- Dale - WC7S in Wy
http://www.qrpfoxhunt.org

>
> I'm ready to HUNT!
>

9995. Re: Working Altoids Tins

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-03 01:09:11 UTC
From: Keith Hamilton
Topic: 9979 Message: 9995

Thank you VERY much for this post. I was getting ready to try and drill a tin for a project. This is a better way to work on the tins. I will definitely be using this technique. Perfect timing!!

73, Keith N8CEP

--- In AT_Sprint@yahoogroups.com, "WA0ITP" <wa0itp@...> wrote:
>
> I recommend not drilling Altoids or other small thin tins. It's
> dangerous in my opinion, is waay to much work, and usually produces
> unsatisfactory results. Brad point or sheet metal bits do the best
> job, but it's difficult to back up and hold the the tins properly.
> I've even tried filling them with water and placed them in the freezer
> overnight, then drilled down into the ice.
>
> IMHO it's far better to punch the tins instead. Here's a tutorial on
> that process. I hope it helps encourage the use of this simple, safe,
> and easy method.. http://www.wa0itp.com/altoids_tutorial.pdf
>
> ----------
> I love this radio stuff !
> 72 WAØITP
> www.wa0itp.com
> www.4sqrp.com
> www.qrpspots.com
>
>
>
> ----- Original Message -----
> From: "William" <fretjock@...>
> To: <AT_Sprint@yahoogroups.com>
> Sent: Friday, November 02, 2012 12:45 PM
> Subject: [AT_Sprint] MTR boxes
>
>
> | Steve,
> |
> | I think making up extra boxes for the MTR is a great idea. Every
> time I try to drill an Altoids box I wind up putting the holes in the
> wrong place. I try to justify it as "air cooling" the finals.
> |
> | Bill, wv1n
> |
> |
> |

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> | ------------------------------------
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> | Yahoo! Groups Links
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9996. Re: Latest project - dual band (80/160) rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-03 12:43:08 UTC
From: Colin
Topic: 9969 Message: 9996

Steve, the new dual band project sounds like a rig that I need! I hope to get going with 160m for SOTA, my antenna is currently in the process of being built, it's a permeability tuned loaded dipole.

Where would I need to look for information of the 80/160 rig availibilty? Will you announce it on this list or at some other place -your web page perhaps?

Also, as I have commented to you before, I regard the MTR as the best rig I own. I operate almost exclusively portable from SOTA summits, so the MTR is the ideal rig for me. I would jump at the chance to own another, this time with a different band combination to include 30m. I would also like a custom case to go with the new rig, although I'd never re-house my original MTR - I think it's Altoids tin case is an important part of it's history.

I'd feel kind of guilty owning 2 MTR's though, I think the guys who missed out on the first run of kits would be more entitled to get hands on the new run.

I took my MTR on to 'High Street' G/LD-011 a few weeks ago - I had never fancied taking a HF rig with me on that summit before, weight and bulk of my FT817 putting me off. With the MTR, it was so easy to slip it in my pack. I had 57 QSO's from the summit, the most ever for me during a SOTA activation! Would I sell my MTR? Erm, let me think for a minute.....NO!

Great design Steve, the praise is well deserved.

If any UK guys fancy one of the new run of MTRs but are not sure about soldering SMDs, I'd be pleased to build it. My job entails soldering SMD's on a daily basis. I'd be able to put together the PCB to a very high standard.

73,
Colin, M0CGH
MTR #131

9997. ATS-3B repaired!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-03 21:08:26 UTC
From: Keith Hamilton
Topic: 9997 Message: 9997

Well I sucessfully repaired my AST-3B today! (I'm kind of proud as you can see!) It was not amplifying the side tone. I could hear stations and VERY faintly hear the sidetone in my earphones. I gently played around with the board until I found a spot that fixed the audio when I pressed on the board. I then took my thin heat regulated soldering iron to the connections. This was in the area of U6. FIXED! Must have been a loose connection. Now on to the next part of the ATS-3B project!

9998. RE: [AT_Sprint] ATS-3B repaired!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-05 01:15:11 UTC
From: Dale Putnam
Topic: 9997 Message: 9998

That's the way to do it!! Congratulations!!
--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: tuner@...
Date: Sat, 3 Nov 2012 21:08:26 +0000
Subject: [AT_Sprint] ATS-3B repaired!

Well I sucessfully repaired my AST-3B today! (I'm kind of proud as you can see!) It was not amplifying the side tone. I could hear stations and VERY faintly hear the sidetone in my earphones. I gently played around with the board until I found a spot that fixed the audio when I pressed on the board. I then took my thin heat regulated soldering iron to the connections. This was in the area of U6. FIXED! Must have been a loose connection. Now on to the next part of the ATS-3B project!

9999. My ATS-4B does not remember the last frequency!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-05 05:33:49 UTC
From: katsumi.seto
Topic: 9999 Message: 9999

I recently noticed that my ATS-4B does not remember the last used frequency. When it was assembled, if I remember right, the last frequency was stored when turing off and it starts the same frequency when turning on. Otherwise, the ATS-4B is working perfectly. I am wondering if anyone expereiences the same. de JA7QIL/Katsu

10000. Re: My ATS-4B does not remember the last frequency!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-05 08:15:10 UTC
From: katsumi.seto
Topic: 9999 Message: 10000

Strange thing is that it retains the last keying speed. de JA7QIL/Katsu

--- In AT_Sprint@yahoogroups.com, "katsumi.seto" <katsumi.seto@...> wrote:
>
> I recently noticed that my ATS-4B does not remember the last used frequency. When it was assembled, if I remember right, the last frequency was stored when turing off and it starts the same frequency when turning on. Otherwise, the ATS-4B is working perfectly. I am wondering if anyone expereiences the same. de JA7QIL/Katsu
>

10001. Re: [AT_Sprint] Re: My ATS-4B does not remember the last frequency!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-05 16:59:58 UTC
From: Ulrich Gaiser
Topic: 9999 Message: 10001

maybe this is the bug described in Message #7875

http://groups.yahoo.com/group/AT_Sprint/message/7875

vy 73
Uli DF7SC

10002. Re: My ATS-4B does not remember the last frequency!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-05 20:54:14 UTC
From: katsumi.seto
Topic: 9999 Message: 10002

Thanks, Uli! I think it is that bug. de JA7QIL/Katsu

--- In AT_Sprint@yahoogroups.com, Ulrich Gaiser <ulrich.gaiser@...> wrote:
>
> maybe this is the bug described in Message #7875
>
> http://groups.yahoo.com/group/AT_Sprint/message/7875
>
> vy 73
> Uli DF7SC
>

10003. Re: ATS-3B repaired!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-05 21:00:12 UTC
From: Michael Califf
Topic: 9997 Message: 10003

Was wondering status of my ats3b1 and decoder in clear top tin? Haven't been able to connect with you via regular email.
AB7OC MikeSr

10004. FOX: HUNT OPENS

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-06 14:47:06 UTC
From: Dale Putnam
Topic: 10004 Message: 10004

WHAAAHOOOOO!! FINALLY THE DAY IS HERE. The Game Warden says, the wait is over and we are good to go... on 40M tonight! There are two foxii that will be sneaking out of their dens.. sniffing around.. and sly and shy as they are... they will be calling"CQ FOX"... somewhere between 7.030 and 7.050 ... at 0200z (that is 7pm MT) and for the next90 miutes, you will be involved in the most fun to be had in 90 minutes.. on your radio. The exchange is pretty standard, and easy to do... the props are great.. the Foxii are super, fun is memorable. Come see for yourself!! Watch for the FOXii announcements on the qfox reflector too! May the props be Ever in YOUR Favor!

--... ...--
Dale - WC7S in Wyhttp://qrpfoxhunt.org

10005. NAQCC Sprint Wednesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-10 16:24:47 UTC
From: NAQCC
Topic: 2848 Message: 10005

NAQCC Sprint Wednesday night!

Our November sprint is this coming Wednesday evening local time (November 14, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Thursday November 15, 0130-0330Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201211.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX for 1st, 2nd and 3rd place finishers (New!). A Certificate for top score in the GAIN antenna category. Starting in November we are adding an extra category called SPECIAL for those folks. If that description fits you, you will be able to select that division and compete against others in the same situation. That will be taken care of via our autologger. As with the other categories and divisions, we'll also award a 2nd and 3rd place certificate according to the same criteria.

Prizes: Too many to list!! - We're making a change in our prize drawing for the sprints. Here's a quote from the prizes page, under the main section, on the web site: "Beginning with the November 2012 sprint, a winner will be notified as soon as one is chosen. Then the first to reply gets the first choice of a prize. Before that we went by order of sprints. In other words, the June winner had to wait for the May winner to make his choice, etc. Now it's first response, first choice no matter what month. That way those who take forever to answer won't hold up those who are eager to get their prize. If someone doesn't reply at all by the end of the following month, there will be a re-drawing to choose a replacement winner for that sprint, and the one who didn't reply becomes ineligible for any future drawings. For example, the June winner has until the end of July to respond."

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6290+ members in: All 50 States - 9 VE Provinces - 90 Countries. Just sign up on the NAQCC website (http://naqcc.info/) and you will receive a handsome certificate, with your membership number which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

10006. Whither KD1JV?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-11 21:49:15 UTC
From: Hank Greeb
Topic: 9637 Message: 10006

What happened to Steven Weber, KD1JV. Last message in my inbox is November 3. Did he go on another hike along some trail? I was/am quite interested in his latest 160/80 metre Direct Conversion rig.

72/73 de n8xx Hg

10007. Re: [AT_Sprint] Whither KD1JV?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-12 01:38:41 UTC
From: Steven Weber
Topic: 9637 Message: 10007

I'm working hard to try and make that a reality. Some times things don't go quite as quickly or as smoothly as first expected or inital signs indicated.

KD1JV

What happened to Steven Weber, KD1JV. Last message in my inbox is November 3. Did he go on another hike along some trail? I was/am quite interested in his latest 160/80 metre Direct Conversion rig.

10008. Re: [AT_Sprint] Whither KD1JV?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-12 02:06:32 UTC
From: Hank Greeb
Topic: 9637 Message: 10008

Thanks, Steve:

Best laid plans of mice and men - even genius fellers like you, sometimes run into "bumps in the road." GL in your endeavors. A bunch of us wait with baited breath!

I hope I'm quick enough to get one of your 50 or so projected 160/80 meter kits. Sometimes I get called away from home for a day or two, and can miss out if you have a quick sell out.

One question, if you have time - will the Direct conversion rig run @ 9 volts? I LOVE the ability to run with 9 volts on my AT-Sprint. Runs nice and cool.

72/73 de n8xx Hg.

On 11/11/2012 8:38 PM, Steven Weber wrote:
>
> I'm working hard to try and make that a reality. Some times things
> don't go quite as quickly or as smoothly as first expected or inital
> signs indicated.
> KD1JV
>
> What happened to Steven Weber, KD1JV. Last message in my inbox is
> November 3. Did he go on another hike along some trail? I was/am
> quite interested in his latest 160/80 metre Direct Conversion rig.

10009. Fox: Hunt Tonight - WC7S

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-13 14:48:07 UTC
From: Dale Putnam
Topic: 10009 Message: 10009

I will be one of the FOXii tonight, with the exemplary K4BAI, in the 40 acre forest.Somewhere between the two trailheads marked 7.050 and 7.030, we will be out of ourdens by 0200z and will return to the safety of our den again by 0330z. Ok.. that's the layout, here's the straight info,The exchange: RST, SPC, Name, Power (not more than 5 watts!) Listen closely to what is sent by the Foxii, the call will be:"FOX WC7S UP... (or) DOWN" For those close, try to grab a pelt early, if not successful, don't give up, I have 5 antennas that all work well, and I will be changing antennas often to allow all hounds a chance to grab a pelt.Stay late too, the props often slip in a late hunt opening starting about the time the band goes long, to select areas. The equipment here will be a K2 at 5 watts, (my tribander is offline currently). The antennas:Three 360 foot long center fed at 50 ft, fed with balanced line. A 100 foot dblt at 30 ft, fed with open balanced line,and a vertical on steel roof, 15 ft above ground. I'll be sly, shy, and listening intently for you. See you tonight!!

--... ...--
Dale - WC7S in Wy

I will be the other Fox in tonight's QRP fox hunt on 40M (with Dale,

WC7S, in WY). Look for the two foxes between 0200 and 0330Z Tuesday

night (9 to 10:30 PM EST) between 7030 and 7050 kHz. Run no more than 5

watts. I will be using an FT1000MP at 5W output as measured by the WM-2

QRP Watt Meter and a coax fed 40 meter dipole up about 40 feet. I will

start out listening UP and will indicate that by CQ FOX DE K4BAI UP.

When the pile up dies down, I will stop saying "UP" and will be

listening on my own frequency. The exchange is RST, SPC, Name, Power.

So, I will be sending real RST, GA, JOHN, 5W. Hope the skip won't be

too long and that I can work most of the country. It will be difficult,

but not necessarily impossible, for those close in. Give it a try and I

will keep it up for the entire 90 minute period. 73/72, John, K4BAI.

10010. Pixie II Questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-13 16:56:38 UTC
From: Chris Maness
Topic: 10010 Message: 10010

I am looking to build a Pixie II to take on a trip. Is there a small external audio DSP that can narrow the passband of this little guy? Seemed like a neat little rig, but I am not sure I can deal with hearing 50 different signals at once in that giant passband. It sounded like it was at least 10k wide.

I am new to DIY QRP. I have a FT817, but it is not as travel friendly as I would like it to be.

73 de KQ6UP
Chris Maness

10011. Re: [AT_Sprint] Pixie II Questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-13 17:02:36 UTC
From: Bill Noyce
Topic: 10010 Message: 10011

Not a DSP, but the switched-capacitor audio filter from NEQRP is a popular addition to simple rigs like this. See the NEScaf at http://newenglandqrp.org/store
-- Bill, AB1AV
On Nov 13, 2012 11:56 AM, "Chris Maness" <chris@...> wrote:

> **
>
>
> I am looking to build a Pixie II to take on a trip. Is there a small
> external audio DSP that can narrow the passband of this little guy? Seemed
> like a neat little rig, but I am not sure I can deal with hearing 50
> different signals at once in that giant passband. It sounded like it was
> at least 10k wide.
>
> I am new to DIY QRP. I have a FT817, but it is not as travel friendly as
> I would like it to be.
>
> 73 de KQ6UP
> Chris Maness
>
>

10012. Re: [AT_Sprint] Pixie II Questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-13 17:32:23 UTC
From: Chris Maness
Topic: 10010 Message: 10012

On Tue, Nov 13, 2012 at 9:02 AM, Bill Noyce <WBNoyce@...> wrote:

>
>
> Not a DSP, but the switched-capacitor audio filter from NEQRP is a popular
> addition to simple rigs like this. See the NEScaf at
> http://newenglandqrp.org/store
> -- Bill, AB1AV
>
>
Thanks, Bill. I wonder if anyone has the board artwork with a Pixie II
available. I would like to buy both kits and put them on one board. Very
cool.

Regards,
Chris Maness

10013. Re: [AT_Sprint] Pixie II Questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-13 18:11:17 UTC
From: Chris Maness
Topic: 10010 Message: 10013

I went for the Rockmite instead of the Pixie II. The Pixie looks like a real simple rig to build, but I would imagine the Rockmite is better performing for the same price.

Thanks,
Chris Maness

On Tue, Nov 13, 2012 at 9:32 AM, Chris Maness <chris@...> wrote:

>
>
>
> On Tue, Nov 13, 2012 at 9:02 AM, Bill Noyce <WBNoyce@...> wrote:
>
>>
>>
>> Not a DSP, but the switched-capacitor audio filter from NEQRP is a
>> popular addition to simple rigs like this. See the NEScaf at
>> http://newenglandqrp.org/store
>> -- Bill, AB1AV
>>
>>
> Thanks, Bill. I wonder if anyone has the board artwork with a Pixie II
> available. I would like to buy both kits and put them on one board. Very
> cool.
>
> Regards,
> Chris Maness
>

10014. Re: [AT_Sprint] Pixie II Questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-13 19:12:11 UTC
From: Colin Evans
Topic: 10010 Message: 10014

The RockMite is a good performer for the money.

I manage ok without extra filtering, but I can see why some folks like to add an audio filter as you sometimes seem to be able to hear the entire band at once!

You might also check out the Czech kit at http://www.hamshop.cz/stavebnice-c4/audio-cw-filtr-i160/

Nowadays my MTR goes out more often than the Rocky :-)

73 Colin M0CGH
On Nov 13, 2012 6:11 PM, "Chris Maness" <chris@...> wrote:

> **
>
>
> I went for the Rockmite instead of the Pixie II. The Pixie looks like a
> real simple rig to build, but I would imagine the Rockmite is better
> performing for the same price.
>
> Thanks,
> Chris Maness
>
>
> On Tue, Nov 13, 2012 at 9:32 AM, Chris Maness <chris@...>wrote:
>
>>
>>
>>
>> On Tue, Nov 13, 2012 at 9:02 AM, Bill Noyce <WBNoyce@...m> wrote:
>>
>>>
>>>
>>> Not a DSP, but the switched-capacitor audio filter from NEQRP is a
>>> popular addition to simple rigs like this. See the NEScaf at
>>> http://newenglandqrp.org/store
>>> -- Bill, AB1AV
>>>
>>>
>> Thanks, Bill. I wonder if anyone has the board artwork with a Pixie II
>> available. I would like to buy both kits and put them on one board. Very
>> cool.
>>
>> Regards,
>> Chris Maness

>>
>
>
>

10015. Re: [AT_Sprint] Pixie II Questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-13 19:24:47 UTC
From: Chris Maness
Topic: 10010 Message: 10015

Yea, do want to get into the AT or MTR, but I am itching to warm my solder pencil. I also have a plane trip that I always get harassed by airport security about my HF gear. The homebrew stuff will probably have them scratching their heads even more. :o)

Chris

On Tue, Nov 13, 2012 at 11:12 AM, Colin Evans <m0cgh@...>wrote:

>
>
> The RockMite is a good performer for the money.
>
> I manage ok without extra filtering, but I can see why some folks like to
> add an audio filter as you sometimes seem to be able to hear the entire
> band at once!
>
> You might also check out the Czech kit at
> http://www.hamshop.cz/stavebnice-c4/audio-cw-filtr-i160/
>
> Nowadays my MTR goes out more often than the Rocky :-)
>
> 73 Colin M0CGH
> On Nov 13, 2012 6:11 PM, "Chris Maness" <chris@...> wrote:
>
>> **
>>
>>
>> I went for the Rockmite instead of the Pixie II. The Pixie looks like a
>> real simple rig to build, but I would imagine the Rockmite is better
>> performing for the same price.
>>
>> Thanks,
>> Chris Maness
>>
>>
>> On Tue, Nov 13, 2012 at 9:32 AM, Chris Maness <chris@...>wrote:
>>
>>>
>>>
>>>
>>> On Tue, Nov 13, 2012 at 9:02 AM, Bill Noyce <WBNoyce@...> wrote:
>>>
>>>>
>>>>
>>>> Not a DSP, but the switched-capacitor audio filter from NEQRP is a

>>>> popular addition to simple rigs like this. See the NEScaf at
>>>> http://newenglandqrp.org/store
>>>> -- Bill, AB1AV
>>>>
>>>>
>>> Thanks, Bill. I wonder if anyone has the board artwork with a Pixie II
>>> available. I would like to buy both kits and put them on one board. Very
>>> cool.
>>>
>>> Regards,
>>> Chris Maness
>>>
>>
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>

10016. Re: [AT_Sprint] Pixie II Questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-14 03:41:54 UTC
From: Steven Weber
Topic: 10010 Message: 10016

Thanks, Bill. I wonder if anyone has the board artwork with a Pixie II available. I would like to buy both kits and put them on one board. Very cool.

The problem is the Pixie II really doesn't work very well, in fact it is a complete waste of time and natrual resources. You'd be much better off getting a Rockmite or my DCxx rig from qrpkits.com At least with either one of those rigs, you actually have a chance of making a contact or two.

Steve KD1JV

10017. Re: [AT_Sprint] Pixie II Questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-14 03:43:29 UTC
From: Paul Mateer
Topic: 10010 Message: 10017

agreed....

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

10018. Re: [AT_Sprint] Pixie II Questions

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-14 03:50:09 UTC
From: Chris Maness
Topic: 10010 Message: 10018

Well that works out because I actually purchased a Rockmite today after watching some youtube demos of both rigs. I then read some eham reviews that made me feel great about my purchase.

73 de KQ6UP
Chris Maness

On Tue, Nov 13, 2012 at 7:43 PM, Paul Mateer <paul.aa9gg@...> wrote:

>
>
> agreed....
>
> --
> Paul Mateer, AA9GG
> Elan Engineering Corp.
> www.elanengr.com
> NAQCC 3123, SKCC 4628, FPQRP 2003
>
>
>
>

10019. FOX FOXHUNT Thurs pm

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-15 01:18:48 UTC
From: Dale Putnam
Topic: 10019 Message: 10019

There's a FOXHUNT Thursday evening (7pm MT) or Friday morning 0200z (whichever way you set your clock from DST.. or not).Bring your best horse and dog.. and of course ... your best fist... oh.. and don't worry about the BIG ENGINE.. you will only need 5 watt brake horsepower, measured at the axle tx. Gather up at the edge of the 80 acre wood and mount up, ready to ride at 0200z or 7pm MT and we will go hunting... a hunting we will go...somewhere between the two markers marked 3.550 and 3.570. Dave N1IX and I, Dale, WC7S will be your shy, sly, slick, FOXii. Here's the deal, you listen real good, y'hr? and we will tell you where to plunk down to fire.... sometimes, historically, the FOXii will look UPhill.. and other times.. Dwnhill. so be listenin' and of course, since it isn't real comfy to pileup on top if each other.. you can't reach yoursippin liquid.... nor find you glasses to look for us with... besides that.. elbows and knees don't make soft sittin.... so SPREAD OUT ... you just might find it a whole lot more productive. After you make your shot, one time.. maybe twice... hush up and listen some more.. we will be moving around.. and it would be advisable to be prepared to fire again, from the right place... another reason to not get all stuck up together... no movin room. When you hear your shot hithome... answer with the signal report, (RST) , your state, province, country, (SPC), your name, and Pwr, (no more than 5 w or you will be de-listed, and no one wants that) So.. Let the Games Begin, and May the Props be ever in OUR Favor

--... ...--
Dale - WC7S in Wyhttp://www.qrpfoxhunt.org

10020. Re: [qfox] FOX FOXHUNT Thurs pm

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-15 08:34:47 UTC
From: Doc
Topic: 10020 Message: 10020

Dale and Gang:

Best Wishes and good luck to one and all tomorrow evening from ole Poppa Fox here in central NM. And I am still a-thinkin' mebbe some of our QRP family might be missin' because of all that terrible bad weather what done hit the NE part of these here New-Nighted States of late.

Anyhoo, y'all be keerfull out there in them 80-aker woods. Be nice to one another :) , and I hope ever one of yew makes it into *BOFE* fox logs. BTW, thankee tew bofe them wiley critters we cawl Foxes (shore 'nuf--'cause each one is a gifted QRPer wid a drop-dead AM tenner system.)

73,
Doc/K0EVZ

Sent from my Verizon Wireless 4G LTE smartphone

Dale Putnam wrote:

There's a FOXHUNT Thursday evening (7pm MT) or Friday morning 0200z (whichever way you set your clock from DST.. or not).
Bring your best horse and dog.. and of course ... your best fist... oh.. and don't worry about the BIG ENGINE.. you will only need
5 watt brake horsepower, measured at the axle tx.

Gather up at the edge of the 80 acre wood and mount up, ready to ride at 0200z or 7pm MT and we will go hunting... a hunting we will go...
somewhere between the two markers marked 3.550 and 3.570. Dave N1IX and I, Dale, WC7S will be your shy, sly, slick, FOXii.

Here's the deal, you listen real good, y'hr? and we will tell you where to plunk down to fire.... sometimes, historically, the FOXii will look
UPhill.. and other times.. Dwnhill. so be listenin' and of course, since it isn't real comfy to pileup on top if each other.. you can't reach your
sippin liquid.... nor find you glasses to look for us with... besides that.. elbows and knees don't make soft sittin.... so SPREAD OUT ... you
just might find it a whole lot more productive.

After you make your shot, one time.. maybe twice... hush up and listen some more.. we will be moving around.. and it would be advisable to
be prepared to fire again, from the right place... another reason to not get all stuck up together... no movin room. When you hear your shot hit
home... answer with the signal report, (RST) , your state, province, country, (SPC), your name, and Pwr, (no more than 5 w or you will be de-listed,
and no one wants that)

So.. Let the Games Begin, and

May the Props be ever in OUR Favor

--... ...-- Dale - WC7S in Wy
http://www.qrpfoxhunt.org

10022. RE: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-16 07:37:24 UTC
From: Paul
Topic: 9931 Message: 10022

Martin, Stick the of end wrong. No lists taken on this group. Just keep watching. Sorry.

Paul, G0odp (also watchin' and waitin')

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Martin Peters
Sent: 01 November 2012 23:27
To: AT_Sprint@yahoogroups.com
Subject: RE: [AT_Sprint] MTR list?

Hi folks - I'm new to the list, and posted a request for an MTR a week or so ago (no luck so far, BTW). I see the last several posts have been along the lines of 'Please put me down for an MTR'. Is this the mechanism to reserve one?

If so, please put me down for 1 MTR!

Or did I get the wrong end of the stick??

73 - Martin, G4EFE

10023. RE: [AT_Sprint] MTR list?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-16 09:44:41 UTC
From: Martin Peters
Topic: 9931 Message: 10023

No worries! I'll keep watching.

73 - Martin

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Paul
Sent: 16 November 2012 07:37
To: AT_Sprint@yahoogroups.com
Subject: RE: [AT_Sprint] MTR list?

Martin, Stick the of end wrong. No lists taken on this group. Just keep watching. Sorry.

Paul, G0odp (also watchin' and waitin')

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Martin Peters
Sent: 01 November 2012 23:27
To: AT_Sprint@yahoogroups.com
Subject: RE: [AT_Sprint] MTR list?

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If so, please put me down for 1 MTR!

Or did I get the wrong end of the stick??

73 - Martin, G4EFE

10024. ats-3b with a receiving loop

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 15:26:31 UTC
From: Vojtech
Topic: 10024 Message: 10024

Hi gang.

I am trying to develop a receiving loop for myself to be used for listening when on business trips. I was thinking of connecting the receiving loop more or less directly to the mixer of the ATS-3b, the great thing of the ATS-3b, the mixer input is directly accessible at the band module connector. All the selectivity would be provided by the Q of the magnetic loop. If the small mag loop does not provide enough signal, the SA612 mixer has enough of gain to overcome it, if the input network is replaced.

Could someone please share following article with me? It is supposed to describe a similar setup.

Shielded Loop Receiver by N1BYT (Cover story on QST, October, 1997)

Thanks and 73, Vojtech OK1IAK

10025. Re: [AT_Sprint] ats-3b with a receiving loop

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 15:46:27 UTC
From: Wayne Dillon
Topic: 10024 Message: 10025

You sure you got the correct call, I just did a search and nothing for 1997
or a receiving loop under his call.
72/3 es God Bless de Wayne - KC0PMH

On Mon, Nov 19, 2012 at 9:26 AM, Vojtech <bubnikv@...> wrote:

> Hi gang.
>
> I am trying to develop a receiving loop for myself to be used for
> listening when on business trips. I was thinking of connecting the
> receiving loop more or less directly to the mixer of the ATS-3b, the great
> thing of the ATS-3b, the mixer input is directly accessible at the band
> module connector. All the selectivity would be provided by the Q of the
> magnetic loop. If the small mag loop does not provide enough signal, the
> SA612 mixer has enough of gain to overcome it, if the input network is
> replaced.
>
> Could someone please share following article with me? It is supposed to
> describe a similar setup.
>
> Shielded Loop Receiver by N1BYT (Cover story on QST, October, 1997)
>
> Thanks and 73, Vojtech OK1IAK
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
http://www.qsl.net/kc0pmh/ Under construction but please visit anyway.
**
QRP - *EFFICIENCY AND SKILL, NOT POWER.*

I'm British by birth but American by CHOICE!

Jesus came to pay a debt He didn't owe because we owe a debt we cannot
pay...

May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
1 Jn 2:17

http://www.4sqrp.com/index.php

4 State QRP Group NCS - 40m & 160m
FPQRP #342 (Flying Pigs QRP Club)
G-QRP-C #11504
NAQCC # 0759
QRP-ARCI #11505
SKCC #1155
SOC #848
30MDG#1176
NEQRP #693

10026. ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 16:12:31 UTC
From: ae5xae5x
Topic: 10026 Message: 10026

I know ATS3 and ATS4 rigs do not have SWR protection and that their use with an autotuner is not recommended. Would it be safe to use an autotuner while powering the rig with a 9V battery or is even this risky?

Thanks/72,

John AE5X
http://www.ae5x.com/blog

10027. Re: ats-3b with a receiving loop

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 16:31:32 UTC
From: Vojtech
Topic: 10024 Message: 10027

I have received a copy already.
Thanks, Vojtech

10028. RE: [AT_Sprint] ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 16:52:25 UTC
From: Dale Putnam
Topic: 10026 Message: 10028

Possible better protection would be to us a 6v supply... or the 9v supply with a 5 ohm resistor in series with it. It should be ok at 9v, but that would depend on exactly how much current is drawn during the autotune process, it is theinstant changes that cause problems.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: ae5x@...
Date: Mon, 19 Nov 2012 16:12:31 +0000
Subject: [AT_Sprint] ATS-series rigs & autotuners?

I know ATS3 and ATS4 rigs do not have SWR protection and that their use with an autotuner is not recommended. Would it be safe to use an autotuner while powering the rig with a 9V battery or is even this risky?

Thanks/72,

John AE5X

http://www.ae5x.com/blog

10029. Re: [AT_Sprint] ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 17:02:26 UTC
From: Lee Hiers
Topic: 10026 Message: 10029

On Mon, Nov 19, 2012 at 11:52 AM, Dale Putnam <daleputnam@...>wrote:
>
> Possible better protection would be to us a 6v supply... or the 9v
> supply with a 5 ohm resistor in series with it.
>
It should be ok at 9v, but that would depend on exactly how much current is
> drawn during the autotune process, it is the
> instant changes that cause problems.
>

Yes, some of the wild load swings can cause problems, even if they are
brief.

My plan (which I've been meaning to get around to for a couple months) is
to build a standalone Tayloe SWR bridge to put in line between the rig and
auto-tuner. That way, the rig would never see a bad load that causes the
current to go too high and melt the finals....and I wouldn't have to mess
with the voltage to the rig.

The key will be to 1) remember to put it in line before tuning and 2) take
it out of line after!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10031. Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 17:14:45 UTC
From: Keith Hamilton
Topic: 10026 Message: 10031

I own both an Elecraft T1 autotuner and an Emtech ZM-2 tuner. I suppose from reading these posts I should use the ZM-2 tuner instead of the T1 with my ATS-3B or other similar Steve Weber rigs???

Any help or advice would be appreciated! 73
Keith N8CEP

--- In AT_Sprint@yahoogroups.com, Lee Hiers <lee.hiers@...> wrote:
>
> On Mon, Nov 19, 2012 at 11:52 AM, Dale Putnam <daleputnam@...>wrote:
> >
> > Possible better protection would be to us a 6v supply... or the 9v
> > supply with a 5 ohm resistor in series with it.
> >
> It should be ok at 9v, but that would depend on exactly how much current is
> > drawn during the autotune process, it is the
> > instant changes that cause problems.
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>
> Yes, some of the wild load swings can cause problems, even if they are
> brief.
>
> My plan (which I've been meaning to get around to for a couple months) is
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> auto-tuner. That way, the rig would never see a bad load that causes the
> current to go too high and melt the finals....and I wouldn't have to mess
> with the voltage to the rig.
>
> The key will be to 1) remember to put it in line before tuning and 2) take
> it out of line after!
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to *
> http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
>

10032. Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 17:21:23 UTC
From: Lewis
Topic: 10026 Message: 10032

You may wish to take a look at the Hendricks QRP "BLT+" tuner. It has a 50 ohm load that is in line when making adjustments, that way the rig sees a proper load.

72
Lew

--- In AT_Sprint@yahoogroups.com, "ae5xae5x" <ae5x@...> wrote:
>
> I know ATS3 and ATS4 rigs do not have SWR protection and that their use with an autotuner is not recommended. Would it be safe to use an autotuner while powering the rig with a 9V battery or is even this risky?
>
> Thanks/72,
>
> John AE5X
> http://www.ae5x.com/blog
>

10033. RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 17:27:12 UTC
From: Dale Putnam
Topic: 10026 Message: 10033

Hi John, Using either tuner would likely be ok, with 9v in, but the ZM-2 does not have sudden switching transiets that MIGHT cause a problem for the FETs in the finals. AND it has a tayloe bridge to provide a load to the tx. The T-1 has been engineered to minimize the switching transiets, and I have used one with a 3b a number of times, without an issue. I was using 9v tho. I very seldom press for the utmost out of the tx... My 3b has a 5ohm resistor that I switch in series with the power lead, to tune with. Lets the tx see about 9v.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: tuner@...
Date: Mon, 19 Nov 2012 17:13:34 +0000
Subject: [AT_Sprint] Re: ATS-series rigs & autotuners?

I own both an Elecraft T1 autotuner and an Emtech ZM-2 tuner. I suppose from reading these posts I should use the ZM-2 tuner instead of the T1 with my ATS-3B or other similar Steve Weber rigs???

Any help or advise would be appreciated! 73

Keith N8CEP

--- In AT_Sprint@yahoogroups.com, "ae5xae5x" <ae5x@...> wrote:

>

> I know ATS3 and ATS4 rigs do not have SWR protection and that their use with an autotuner is not recommended. Would it be safe to use an autotuner while powering the rig with a 9V battery or is even this risky?

>

> Thanks/72,

>

> John AE5X

> http://www.ae5x.com/blog

>

10034. Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 17:51:25 UTC
From: ae5xae5x
Topic: 10026 Message: 10034

Those are the same tuners I have for QRP and much prefer the T1 if I'm going to be switching bands often. I guess I'll use the 9v batt + 5-ohm suggestion.

Tnx all,

John AE5X
http://www.ae5x.com/blog

--- In AT_Sprint@yahoogroups.com, "Keith Hamilton" <tuner@...> wrote:
>
> I own both an Elecraft T1 autotuner and an Emtech ZM-2 tuner. I suppose from
> reading these posts I should use the ZM-2 tuner instead of the T1 with my ATS-3B
> or other similar Steve Weber rigs???
>
> Any help or advice would be appreciated! 73
> Keith N8CEP
>
>

10035. RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 17:54:04 UTC
From: John Aeiker
Topic: 10026 Message: 10035

Dale-

I have used the T-1 with my ATS3 for several years with no problems. I always use a 9v battery while tuning. I usually then manually switch to 8 AA pack but, often leave the 9v battery connected (especially if it is a new one). One of these days, I will incorporate a switchable "tune" switch on my battery pack.

73/72, John

WA8HSB

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Monday, November 19, 2012 11:27 AM
To: AT Sprint
Subject: RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

Hi John,
Using either tuner would likely be ok, with 9v in, but the ZM-2 does not have sudden switching transiets that MIGHT cause a problem for the FETs in the finals. AND it has a tayloe bridge to provide a load to the tx. The T-1 has been engineered to minimize the switching transiets, and I have used one

with a 3b a number of times, without an issue. I was using 9v tho. I very seldom press for the utmost out of the tx...
My 3b has a 5ohm resistor that I switch in series with the power lead, to tune with. Lets the tx see about 9v.

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: tuner@...
Date: Mon, 19 Nov 2012 17:13:34 +0000
Subject: [AT_Sprint] Re: ATS-series rigs & autotuners?

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Any help or advise would be appreciated! 73
Keith N8CEP

--- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> , "ae5xae5x" <ae5x@...> wrote:
>

> I know ATS3 and ATS4 rigs do not have SWR protection and that their use with an autotuner is not recommended. Would it be safe to use an autotuner while powering the rig with a 9V battery or is even this risky?
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> Thanks/72,
>
> John AE5X
> http://www.ae5x.com/blog
>

10036. RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 18:03:06 UTC
From: Dale Putnam
Topic: 10026 Message: 10036

Very good, John, I run mine at 9v almost all the time... saves the batteries, and lets me yak longer.... ;-)

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: john.aeiker@...
Date: Mon, 19 Nov 2012 11:54:04 -0600
Subject: RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

Dale-I have used the T-1 with my ATS3 for several years with no problems. I always use a 9v battery while tuning. I usually then manually switch to 8 AA pack but, often leave the 9v battery connected (especially if it is a new one). One of these days, I will incorporate a switchable “tune” switch on my battery pack. 73/72, JohnWA8HSB From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Monday, November 19, 2012 11:27 AM
To: AT Sprint
Subject: RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

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--... ...-- Dale - WC7S in Wy
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From: tuner@...
Date: Mon, 19 Nov 2012 17:13:34 +0000
Subject: [AT_Sprint] Re: ATS-series rigs & autotuners?

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Any help or advise would be appreciated! 73
Keith N8CEP

--- In AT_Sprint@yahoogroups.com, "ae5xae5x" <ae5x@...> wrote:
>
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>
> Thanks/72,
>
> John AE5X
> http://www.ae5x.com/blog
>

10037. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 18:16:56 UTC
From: TJ Campie
Topic: 10026 Message: 10037

what battery do you use for 9v? Just a normal transistor radio battery?

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Mon, Nov 19, 2012 at 12:03 PM, Dale Putnam <daleputnam@...>wrote:

> **
>
>
> Very good, John,
> I run mine at 9v almost all the time... saves the batteries, and lets me
> yak longer.... ;-)
>
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: john.aeiker@...
> Date: Mon, 19 Nov 2012 11:54:04 -0600
>
> Subject: RE: [AT_Sprint] Re: ATS-series rigs & autotuners?
>
>
>
> Dale-
>
> I have used the T-1 with my ATS3 for several years with no problems. I
> always use a 9v battery while tuning. I usually then manually switch to 8
> AA pack but, often leave the 9v battery connected (especially if it is a
> new one). One of these days, I will incorporate a switchable “tune” switch
> on my battery pack.
>
>
>
> 73/72, John
>
> WA8HSB
>
>

>
> *From:* AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] *On
> Behalf Of *Dale Putnam
> *Sent:* Monday, November 19, 2012 11:27 AM
> *To:* AT Sprint
> *Subject:* RE: [AT_Sprint] Re: ATS-series rigs & autotuners?
>
>
>
>
>
>
> Hi John,
> Using either tuner would likely be ok, with 9v in, but the ZM-2 does not
> have sudden switching transiets that MIGHT cause a problem for the FETs in
> the finals. AND it has a tayloe bridge to provide a load to the tx. The
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> with a 3b a number of times, without an issue. I was using 9v tho. I very
> seldom press for the utmost out of the tx...
> My 3b has a 5ohm resistor that I switch in series with the power lead, to
> tune with. Lets the tx see about 9v.
>
> --... ...-- Dale - WC7S in Wy
>
> ----------
>
> To: AT_Sprint@yahoogroups.com
> From: tuner@...
> Date: Mon, 19 Nov 2012 17:13:34 +0000
> Subject: [AT_Sprint] Re: ATS-series rigs & autotuners?
>
>
>
> I own both an Elecraft T1 autotuner and an Emtech ZM-2 tuner. I suppose
> from reading these posts I should use the ZM-2 tuner instead of the T1 with
> my ATS-3B or other similar Steve Weber rigs???
>
> Any help or advise would be appreciated! 73
> Keith N8CEP
>
> --- In AT_Sprint@yahoogroups.com, "ae5xae5x" <ae5x@...> wrote:
> >
> > I know ATS3 and ATS4 rigs do not have SWR protection and that their use
> with an autotuner is not recommended. Would it be safe to use an autotuner
> while powering the rig with a 9V battery or is even this risky?
> >
> > Thanks/72,
> >
> > John AE5X

> > http://www.ae5x.com/blog
> >
>
>
>
>
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>
>

10038. Re: [AT_Sprint] ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 18:19:59 UTC
From: Hank Greeb
Topic: 10026 Message: 10038

I've had no problems at all with a 9 VDC (nominal) power source (8 AA NiMH cells, rated at 9.6 V 1600 mAH) with my LDG Z-100 tuner. I use it with my original version of the AT-Sprint (no suffix) It has put out 3 watts into SWR=3.0 with no problem whatsoever. With the LDG tuner the SWR is less than 2.0, and, if I use a SWR bridge in series with the tuner, it often is between SWR 1.2 and 1.5.

The manual which came with my rig says that one must be careful of SWR when running 12 VDC because the peak voltage on the finals can be very near the breakdown voltage, if SWR >2 or so.

The ATS-3b has overload protection built in, so if the finals draw more than a present amount of current the system shuts down. There's still a warning about high SWR I'm not familiar with the ATS-4 series.

72/73 de n8xx Hg

On 11/19/2012 11:12 AM, ae5xae5x wrote:
> I know ATS3 and ATS4 rigs do not have SWR protection and that their use with an autotuner is not recommended. Would it be safe to use an autotuner while powering the rig with a 9V battery or is even this risky?
>
> Thanks/72,
>
> John AE5X
> http://www.ae5x.com/blog
>
>
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>
>

10039. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 18:20:25 UTC
From: Lee Hiers
Topic: 10026 Message: 10039

On Mon, Nov 19, 2012 at 1:16 PM, TJ Campie <tom.campie@...> wrote:

what battery do you use for 9v? Just a normal transistor radio battery?
>

I use a Energizer 9v primary lithium.

--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10040. RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 18:22:27 UTC
From: Dale Putnam
Topic: 10026 Message: 10040

an 8 pack of nicads works well... or a transistor battery can be pressed into use, if tx time is limited... that is not a battery of choice for ragchews or contests.... but it sure works for tuning around the bands, tuneups an foxhunts.. where tx time is a couple minutes long, in 90 minutes... and that is full of dits and dahs.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: tom.campie@...
Date: Mon, 19 Nov 2012 12:16:56 -0600
Subject: Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

what battery do you use for 9v? Just a normal transistor radio battery? 73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254

Elecraft KX3 SN 288
Because QRO is too easy

On Mon, Nov 19, 2012 at 12:03 PM, Dale Putnam <daleputnam@...> wrote:

Very good, John,
I run mine at 9v almost all the time... saves the batteries, and lets me yak longer.... ;-)

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: john.aeiker@...

Date: Mon, 19 Nov 2012 11:54:04 -0600
Subject: RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

Dale-
I have used the T-1 with my ATS3 for several years with no problems. I always use a 9v battery while tuning. I usually then manually switch to 8 AA pack but, often leave the 9v battery connected (especially if it is a new one). One of these days, I will incorporate a switchable “tune” switch on my battery pack.

73/72, JohnWA8HSB

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam

Sent: Monday, November 19, 2012 11:27 AM
To: AT Sprint

Subject: RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

Hi John,

Using either tuner would likely be ok, with 9v in, but the ZM-2 does not have sudden switching transiets that MIGHT cause a problem for the FETs in
the finals. AND it has a tayloe bridge to provide a load to the tx. The T-1 has been engineered to minimize the switching transiets, and I have used one

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--... ...-- Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com

From: tuner@zoominternet.net
Date: Mon, 19 Nov 2012 17:13:34 +0000
Subject: [AT_Sprint] Re: ATS-series rigs & autotuners?

I own both an Elecraft T1 autotuner and an Emtech ZM-2 tuner. I suppose from reading these posts I should use the ZM-2 tuner instead of the T1 with my ATS-3B or other similar Steve Weber rigs???

Any help or advise would be appreciated! 73

Keith N8CEP

--- In AT_Sprint@yahoogroups.com, "ae5xae5x" <ae5x@...> wrote:
>

> I know ATS3 and ATS4 rigs do not have SWR protection and that their use with an autotuner is not recommended. Would it be safe to use an autotuner while powering the rig with a 9V battery or is even this risky?

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> Thanks/72,
>
> John AE5X
> http://www.ae5x.com/blog
>

10041. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 18:22:35 UTC
From: TJ Campie
Topic: 10026 Message: 10041

ah ok. I see. I've been using 8 AA NiMH batteries too with great success
(on my MTR of course). Closer to 12v when fully charged.

speaking of which... I have not used that radio for a while!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Mon, Nov 19, 2012 at 12:20 PM, Lee Hiers <lee.hiers@...> wrote:

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>
>
> On Mon, Nov 19, 2012 at 1:16 PM, TJ Campie <tom.campie@...> wrote:
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> what battery do you use for 9v? Just a normal transistor radio battery?
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>
> I use a Energizer 9v primary lithium.
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> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to *
> http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
>
>
>
>

10042. RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 18:30:49 UTC
From: Dale Putnam
Topic: 10026 Message: 10042

This is an wonderful suggestion... that BLT+ is solid.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: lewischeek@...
Date: Mon, 19 Nov 2012 17:21:23 +0000
Subject: [AT_Sprint] Re: ATS-series rigs & autotuners?

You may wish to take a look at the Hendricks QRP "BLT+" tuner. It has a 50 ohm load that is in line when making adjustments, that way the rig sees a proper load.

72

Lew

--- In AT_Sprint@yahoogroups.com, "ae5xae5x" <ae5x@...> wrote:

>

> I know ATS3 and ATS4 rigs do not have SWR protection and that their use with an autotuner is not recommended. Would it be safe to use an autotuner while powering the rig with a 9V battery or is even this risky?

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> John AE5X

> http://www.ae5x.com/blog

>

10043. RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 18:52:09 UTC
From: John Aeiker
Topic: 10026 Message: 10043
Attachments: 1 described; binary payloads are missing from this source WARC

I use a Duracell Alkaline 9v as they are easy to find anywhere I travel to. As Dale says, they do not last long but I have used a new one for 30 minute sprints and other short runs without any problem. One time, I forgot my 8AA pack and used a twin pack of 9v alkalines for an ARS Sprint (where weight is a factor). Used the first one for the first hour and then switched to the second one for the second hour. Worked great. I primarily use it for tuning up though.

73, John

WA8HSB

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Monday, November 19, 2012 12:22 PM
To: AT Sprint
Subject: RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

an 8 pack of nicads works well... or a transistor battery can be pressed into use, if tx time is limited... that is not a
battery of choice for ragchews or contests.... but it sure works for tuning around the bands, tuneups an foxhunts..
where tx time is a couple minutes long, in 90 minutes... and that is full of dits and dahs.

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Dale-

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Using either tuner would likely be ok, with 9v in, but the ZM-2 does not have sudden switching transiets that MIGHT cause a problem for the FETs in the finals. AND it has a tayloe bridge to provide a load to the tx. The T-1 has been engineered to minimize the switching transiets, and I have used one

with a 3b a number of times, without an issue. I was using 9v tho. I very seldom press for the utmost out of the tx...
My 3b has a 5ohm resistor that I switch in series with the power lead, to tune with. Lets the tx see about 9v.

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: tuner@...
Date: Mon, 19 Nov 2012 17:13:34 +0000
Subject: [AT_Sprint] Re: ATS-series rigs & autotuners?

I own both an Elecraft T1 autotuner and an Emtech ZM-2 tuner. I suppose from reading these posts I should use the ZM-2 tuner instead of the T1 with my ATS-3B or other similar Steve Weber rigs???

Any help or advise would be appreciated! 73
Keith N8CEP

--- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> ,
"ae5xae5x" <ae5x@...> wrote:
>
> I know ATS3 and ATS4 rigs do not have SWR protection and that their use
with an autotuner is not recommended. Would it be safe to use an autotuner
while powering the rig with a 9V battery or is even this risky?
>
> Thanks/72,
>
> John AE5X
> http://www.ae5x.com/blog
>

10044. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 18:59:16 UTC
From: Lee Hiers
Topic: 10026 Message: 10044

On Mon, Nov 19, 2012 at 1:52 PM, John Aeiker <john.aeiker@...> wrote:

> One time, I forgot my 8AA pack and used a twin pack of 9v alkalines for an
> ARS Sprint (where weight is a factor). Used the first one for the first
> hour and then switched to the second one for the second hour. Worked
> great.
>

I was never satisfied with the voltage drop I was getting with an alkaline 9v when transmitting - but the primary lithium has been great - I've gotten two full ARS sprints plus still have juice left out of a single battery - which is lighter than a standard 9v. Unfortunately, they're not cheap...but I don't use that rig a lot, so it's not as bad as looking at the price tag might imply.

I do use a standard 9v when I'm just listening, which is mostly what I seem to do with my ATS3b.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10045. Power sources

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 18:59:18 UTC
From: Colin
Topic: 10045 Message: 10045

I've been using a 2S LiPo with great success with my MTR. Power out seems to be about 2.5w at 8V, more than the specs from KD1JV would suggest.

I have also used 8off NiMHs, they work well too, if more power is needed.

http://m0cgh.blogspot.co.uk/2012/11/buckden-pike-remembrance-sunday.html

I have an ALT tuner on my bench at the moment, I'm just fitting it in to an Altoids tin, I hope to use this with the MTR.

73
Colin, M0CGH
MTR#131

10046. Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 19:52:35 UTC
From: ve3wmb
Topic: 10026 Message: 10046

John :

I have a T1 and I either hook up the ATS-3 to a 9v battery to tune, or if I remember I bring along my Tayloe SWR bridge and hook it up between the rig the T1, that way the ATS-rig always sees 50 ohms during tuning.

On a related note, I have made several QSOs in the field with the Taylor SWR bridge in the TUNE position ;-)

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "John Aeiker" <john.aeiker@...> wrote:
>
> Dale-
>
> I have used the T-1 with my ATS3 for several years with no problems. I
> always use a 9v battery while tuning. I usually then manually switch to 8
> AA pack but, often leave the 9v battery connected (especially if it is a new
> one). One of these days, I will incorporate a switchable "tune" switch on
> my battery pack.
>
>
>
> 73/72, John
>
> WA8HSB
>
>
>
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of Dale Putnam
> Sent: Monday, November 19, 2012 11:27 AM
> To: AT Sprint
> Subject: RE: [AT_Sprint] Re: ATS-series rigs & autotuners?
>
>
>
>
>
>
>
>
>
> Hi John,
> Using either tuner would likely be ok, with 9v in, but the ZM-2 does not
> have sudden switching transiets that MIGHT cause a problem for the FETs in
> the finals. AND it has a tayloe bridge to provide a load to the tx. The T-1

> has been engineered to minimize the switching transiets, and I have used one
>
> with a 3b a number of times, without an issue. I was using 9v tho. I very
> seldom press for the utmost out of the tx...
> My 3b has a 5ohm resistor that I switch in series with the power lead, to
> tune with. Lets the tx see about 9v.
>
> --... ...-- Dale - WC7S in Wy
>
>
> _____
>
> To: AT_Sprint@yahoogroups.com
> From: tuner@...
> Date: Mon, 19 Nov 2012 17:13:34 +0000
> Subject: [AT_Sprint] Re: ATS-series rigs & autotuners?
>
>
>
> I own both an Elecraft T1 autotuner and an Emtech ZM-2 tuner. I suppose from
> reading these posts I should use the ZM-2 tuner instead of the T1 with my
> ATS-3B or other similar Steve Weber rigs???
>
> Any help or advise would be appreciated! 73
> Keith N8CEP
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> ,
> "ae5xae5x" <ae5x@> wrote:
> >
> > I know ATS3 and ATS4 rigs do not have SWR protection and that their use
> with an autotuner is not recommended. Would it be safe to use an autotuner
> while powering the rig with a 9V battery or is even this risky?
> >
> > Thanks/72,
> >
> > John AE5X
> > http://www.ae5x.com/blog
> >
>

10047. Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 20:07:50 UTC
From: ae5xae5x
Topic: 10026 Message: 10047

Just to clarify - I'm only thinking of using a 9v battery for the auto tuning cycle in order to limit power out and current into the rig at that time.

Once tuned, I'd then switch to my normal battery pack which would be a 3S LiPo or 10/12 NiMh AA cells, preferably Eneloops:
http://www.ae5x.com/blog/2012/02/10/three-generations-of-sanyo-eneloops-compared/

John AE5X

--- In AT_Sprint@yahoogroups.com, Lee Hiers <lee.hiers@...> wrote:
>
> On Mon, Nov 19, 2012 at 1:52 PM, John Aeiker <john.aeiker@...> wrote:
>
>
> > One time, I forgot my 8AA pack and used a twin pack of 9v alkalines for an
> > ARS Sprint (where weight is a factor). Used the first one for the first
> > hour and then switched to the second one for the second hour. Worked
> > great.
> >
>
> I was never satisfied with the voltage drop I was getting with an alkaline
> 9v when transmitting - but the primary lithium has been great - I've gotten
> two full ARS sprints plus still have juice left out of a single battery -
> which is lighter than a standard 9v. Unfortunately, they're not
> cheap...but I don't use that rig a lot, so it's not as bad as looking at
> the price tag might imply.
>
> I do use a standard 9v when I'm just listening, which is mostly what I seem
> to do with my ATS3b.
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to *
> http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
>

10048. Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 20:38:55 UTC
From: n1rx
Topic: 10026 Message: 10048

Safest thing to do is have a resistive bridge SWR indicator switchable inline, ala Dan Tayloe style. For any type tuner. Switch it in for tuning, switch it out when done. With this type of system, the transmitter never see greater than a 2:1 SWR, whether the antenna and tuner system represents a dead short, completely open circuit, or anything in between. Done.
72,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "ae5xae5x" <ae5x@...> wrote:
>
> I know ATS3 and ATS4 rigs do not have SWR protection and that their use with an autotuner is not recommended. Would it be safe to use an autotuner while powering the rig with a 9V battery or is even this risky?
>
> Thanks/72,
>
> John AE5X
> http://www.ae5x.com/blog
>

10049. Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-19 21:09:03 UTC
From: n1rx
Topic: 10026 Message: 10049

Not quite. 8-) With an open circuit load, the transmitter "sees" 100 Ohms as the load. With a short circuit, the transmitter "sees" about 25 Ohms.

I have also made many QSOs with the bridge in-line when I forgot to switch it out. It's a price for protection.
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@...> wrote:
>
> John :
>
> I have a T1 and I either hook up the ATS-3 to a 9v battery to tune, or if I
> remember I bring along my Tayloe SWR bridge and hook it up between the rig the T1,
> that way the ATS-rig always sees 50 ohms during tuning.

10050. Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-20 07:52:41 UTC
From: Vojtech
Topic: 10026 Message: 10050

The ATS-3 and 4 rigs have an overvoltage protection of the form of a Zener diode parallel to the source - drain of the power FETs. This eats up the high voltage spikes induced when no load or a highly inductive load is connected.

The output FETs may either die of overvoltage, or from heating through excessive power losses, mainly from low output impedance. As long as they are not operating into a short circuit directly, it will take a time to overheat to the extent to burn.

I have used the elecraft T1 autotuner with LiIon batteries without problem. During my development of the ATS-3b alternate firmware and the digital firmware, I have transmitted without an antenna a lot, which develops high voltage spikes at the FETs, which are clamped by the Zener diode. This never killed the FETs.

I only killed the FETs twice, once when I transmitted 3W out of a LiOn battery into a small magnetic loop, which was not matched correctly. Second, when I received a prototype from Steve, which did not have the clamping Zener diode at all, and with which I transmitted without load, as I was used to with an older ATS-3a.

If you are worried about your finals, you may try to send dots with you T1 autotuner. The autotuner is specified to work even with SSB and the dots let the finals cool down in case of low impedance high current spikes into the finals.

73, Vojtech OK1IAK, AB2ZA

10051. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-20 18:38:50 UTC
From: Steven Weber
Topic: 10026 Message: 10051

> The output FETs may either die of overvoltage, or from heating through
> excessive power losses, mainly from low output impedance. As long as they
> are not operating into a short circuit directly, it will take a time to
> overheat to the extent to burn.
>

Actually, what seems to kill the FETs more than anything is over current. The versions which used the 2N7000 finals (pre 3B's) were the most prone to this. When I made the switch to the BS170's which have a higher current rating, over current became much less of an issue and have proven to be reliable. However, it still is a good idea to be careful with them...

Steve KD1JV

10052. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-20 18:47:23 UTC
From: TJ Campie
Topic: 10026 Message: 10052

Also, one point of note: BS170s are $0.11 on Mouser's website so even if you do blow them up, you're only out a couple dollars with shipping!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Nov 20, 2012 at 12:38 PM, Steven Weber <steve.kd1jv@...>wrote:

> **
>
>
> > The output FETs may either die of overvoltage, or from heating through
> > excessive power losses, mainly from low output impedance. As long as
> they
> > are not operating into a short circuit directly, it will take a time to
> > overheat to the extent to burn.
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> rating, over current became much less of an issue and have proven to be
> reliable. However, it still is a good idea to be careful with them...
>
> Steve KD1JV
>
>
>

10053. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-20 19:05:17 UTC
From: Lee Hiers
Topic: 10026 Message: 10053

Are the BS170s and 2N7000 interchangeable? I have a good handful of
2N7000s on hand - would they drop in OK, or would I need to mess with bias
or something?

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

On Tue, Nov 20, 2012 at 1:47 PM, TJ Campie <tom.campie@...> wrote:

> **
>
>
> Also, one point of note: BS170s are $0.11 on Mouser's website so even if
> you do blow them up, you're only out a couple dollars with shipping!
>
>

10054. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-20 20:09:21 UTC
From: f6ddv
Topic: 10026 Message: 10054

Hello Steve
I take this opportunity to ask a question
I have BS170 stock because you never know what can happen ...
is it possible to place 3 BS170 without changing the polarization
in ATS3A?

I take this opportunity to say that we must be wary of ATU, I had a problem with the T1 TX HB1b as he sought the proper impedance on a long wire antenna,
the RF voltage and climbed back to the exceeded the standard voltage on the diode Zenner ... it is passed courcircuit the choke to burnt toast and HF electronic switching, TX / TX, and a few other things ... (Fun for more! ...)
I think we should be careful enough, the setting time is sometimes too long, the ideas of some of you do not put 12 volts for trimming and placing a load
passing 50 ohm and a transfer switch is a good idea ...
73s
jean paul F6DDV
----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, November 20, 2012 7:38 PM
Subject: Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

> The output FETs may either die of overvoltage, or from heating through
> excessive power losses, mainly from low output impedance. As long as they
> are not operating into a short circuit directly, it will take a time to
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The versions which used the 2N7000 finals (pre 3B's) were the most prone to
this. When I made the switch to the BS170's which have a higher current
rating, over current became much less of an issue and have proven to be
reliable. However, it still is a good idea to be careful with them...

Steve KD1JV

10055. Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-20 20:16:05 UTC
From: Jerry
Topic: 10026 Message: 10055

ARE THE BS170's directly replacement in the ATS-3 (pre-3B's)???

Thanks es 73,

Jerry N4EO, ex-YI9EO, not ex as in ex-XYL, just ex :-)
>
> Actually, what seems to kill the FETs more than anything is over current.
> The versions which used the 2N7000 finals (pre 3B's) were the most prone to
> this. When I made the switch to the BS170's which have a higher current
> rating, over current became much less of an issue and have proven to be
> reliable. However, it still is a good idea to be careful with them...
>
> Steve KD1JV
>

10056. Re: [AT_Sprint] 2N7000 vs BS170

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-20 20:27:42 UTC
From: Michael Harnage
Topic: 10026 Message: 10056

No, check the datasheets. The pinouts are reversed. You would mount them backwards if replacing 7000's as the source and drain are opposite.

http://www.fairchildsemi.com/ds/2N/2N7000.pdf

http://www.fairchildsemi.com/ds/BS/BS170.pdf

-mike/w1mt

>_____
>
>ARE THE BS170's directly replacement in the ATS-3 (pre-3B's)???
>
>

10057. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-20 22:15:41 UTC
From: Steven Weber
Topic: 10026 Message: 10057

The pin out is reveresed. With flat side towards you, 2N7000 goes DGS while the BS170 goes SGD. So, if replacing 2N7000 with BS170, the BS170 must be installed "backwards" to the outline of the 2N7000.

Hello Steve
I take this opportunity to ask a question
I have BS170 stock because you never know what can happen ...
is it possible to place 3 BS170 without changing the polarization
in ATS3A?

10058. Team AT Sprinters" Invades the August 2012 NAQP CW

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-21 00:49:15 UTC
From: Hank Greeb
Topic: 10058 Message: 10058

For those who don't get NCJ, I've received permission to reprint an article by Dale, WC7S; Lee, AA4GA; TJ, W?EA; Arthur, NS7E; Gabriel, N6OSB, and yours truly, N8XX. This article is titled "Team AT Sprinters" Invades the August 2012,NAQP CW" from the current (November/December 2012) issue of the National Contest Journal, and may be accessed by bringing up the web page:

http://www.w8dc.org
and following the links.

or, for a direct link,

http://www.w8dc.org/grr_images/Greeb2.pdf

The six of us had fun using rigs similar to what several of my contesting friends describe as ?You actually make contacts with that????

As you may guess, we like to have fun and enjoy ourselves while participating in contests.

Results aren't out yet for the August CW NAQP, but WC7S placed quite well in the listing on the 3830@... reflector for the QRP category.

72/73 de n8xx Hg
QRP >99.44% of the time\

10059. Team AT Sprinters" Invades the August 2012 NAQP CW

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-21 00:50:07 UTC
From: Hank Greeb
Topic: 10058 Message: 10059

For those who don't get NCJ, I've received permission to reprint an article by Dale, WC7S; Lee, AA4GA; TJ, W?EA; Arthur, NS7E; Gabriel, N6OSB, and yours truly, N8XX. This article is titled "Team AT Sprinters" Invades the August 2012, NAQP CW" from the current (November/December 2012) issue of the National Contest Journal, and may be accessed by bringing up the web page:

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The six of us had fun using rigs similar to what several of my contesting friends describe as ?You actually make contacts with that????

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72/73 de n8xx Hg
QRP >99.44% of the time\

10060. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-21 17:19:34 UTC
From: f6ddv
Topic: 10026 Message: 10060

Hi Steve
OK, I understood that, so the characteristics of the BS170 are good for ATS3A also, thank you and 73s
jean-paul F6DDV

From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, November 20, 2012 11:15 PM
Subject: Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

The pin out is reveresed. With flat side towards you, 2N7000 goes DGS while the BS170 goes SGD. So, if replacing 2N7000 with BS170, the BS170 must be installed "backwards" to the outline of the 2N7000.

Hello Steve
I take this opportunity to ask a question
I have BS170 stock because you never know what can happen ...
is it possible to place 3 BS170 without changing the polarization
in ATS3A?

10061. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-21 17:56:24 UTC
From: mstangelo@comcast.net
Topic: 10026 Message: 10061

Steve,

If I replace the 2N7000's with BS170 do I have to repeak the filter coils or are the cpacitances similar?

Mike N2MS
----- Original Message -----
From: Steven Weber <steve.kd1jv@...>
To: AT Sprint <AT_Sprint@yahoogroups.com>
Sent: Tue, 20 Nov 2012 22:15:41 -0000 (UTC)
Subject: Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

The pin out is reveresed. With flat side towards you, 2N7000 goes DGS while the BS170 goes SGD. So, if replacing 2N7000 with BS170, the BS170 must be installed "backwards" to the outline of the 2N7000.

Hello Steve
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I have BS170 stock because you never know what can happen ...
is it possible to place 3 BS170 without changing the polarization
in ATS3A?

10062. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-21 19:37:23 UTC
From: Steven Weber
Topic: 10026 Message: 10062

```
>
> If I replace the 2N7000's with BS170 do I have to repeak the filter coils
> or are the cpacitances similar?
>

No, will work the same.
```

10063. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-21 20:33:07 UTC
From: Per Elmdahl
Topic: 10026 Message: 10063

Hmmm.

Jumping in in the middle of this discussion:

I own an ATS-3A and an Elecraft T1 tuner. I have never had any issue with broken finals. However, I guess I could reduce the risk by replacing the 2N7000s with BS170s. Is there anything else I could do to reduce the risk of killing the finals? If I remember correctly, you have talked about overcurrent protection in later ATS models. Current limiting? A simple resistor?

regards,
//Per SM5OCI

On 2012-11-20 19:38, Steven Weber wrote:

> The output FETs may either die of overvoltage, or from heating through
> excessive power losses, mainly from low output impedance. As long as they
> are not operating into a short circuit directly, it will take a time to
> overheat to the extent to burn.
>

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Steve KD1JV

10064. RE: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-21 20:47:51 UTC
From: Dale Putnam
Topic: 10026 Message: 10064

Placing a 5 ohm resistor in series with the power input, then shorting it out for full power.. and utilizing it in circuit for tuneup, will limit the current and provide very nice protection for the spikes incurred with a T1.

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
CC: steve.kd1jv@...
From: per@...
Date: Wed, 21 Nov 2012 21:33:07 +0100
Subject: Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Hmmm.

Jumping in in the middle of this discussion:

I own an ATS-3A and an Elecraft T1 tuner. I have never had any issue with broken finals. However, I guess I could reduce the risk by replacing the 2N7000s with BS170s. Is there anything else I could do to reduce the risk of killing the finals? If I remember correctly, you have talked about overcurrent protection in later ATS models. Current limiting? A simple resistor?

regards,

//Per SM5OCI

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wrote:

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from heating through

> excessive power losses, mainly from low output
impedance. As long as they

> are not operating into a short circuit directly, it
will take a time to

> overheat to the extent to burn.

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is over current.

The versions which used the 2N7000 finals (pre 3B's) were
the most prone to

this. When I made the switch to the BS170's which have a higher current

rating, over current became much less of an issue and have proven to be

reliable. However, it still is a good idea to be careful with them...

Steve KD1JV

10065. Re: ATS-series BS-170 Finals and Tuning Protection

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-24 03:14:11 UTC
From: radio_kx0r
Topic: 10026 Message: 10065

I replaced the 2N7000's in my ATS-3B with BS-170's when one of the 2N7000's shorted out in 2011. The BS-170's have been on numerous field trips and backpacks, always running on 3S Lithium Ion cells at 5W out and 12.3V. So far, lots of fun hours on these littel devices!

There was no significant difference in tuning, power output, or current consumption, even on 15M, after I did the swap.

Because the BS-170's have reversed pinout, the flat sides of the TO-92 cases will not be flat against the board like the 2N7000's were. I was bothered by this, so a created a small copper heatsink that's lightly clamped across the flat faces of the BS-170's. Thermal grease helps the heat flow to the copper.

If you go to the Photos section of this site, look in my KX0R folder, and find - hidden away on page 2 - close up photos showing the BS-170's with the copper heat sink.

It's true that the heat sink adds a few grams of mass, but it provides some peace of mind when calling CQ on 15M with 12V going in and 5W going out. It's cheap and easy. The copper didn't mess up the tuning either, even though it's connected to the PCB ground.

Also it's a good idea of using a series resistor to protect the rig while tuning. Mine is about 6.7 ohms. It knocks the output down from 5W to 2.5W with 12V in. The amazing thing is that the entire radio still works perfectly with the series resistor, even though the supply voltage is bouncing around. The keying is fine, the receiver is unchanged, and all's well. The current drain on transmit is reduced, so it's an easy way to extend the battery if you need to. This ability to run with series resistance doesn't hold for the ATS-3A, but the 3B can handle it.

It's smart to tune with a Tayloe bridge to limit the stress on the final stage. The combination of series resistor on the supply and Tayloe bridge on the tuner are all you need for safe tune-ups.

Some are scared to run these tiny rigs near full power, so they run on 9 or 10V, and the listener hears more QSB. Be brave - adjust your toroids and capacitors - run 4 or 5W - just tune up carefully and get a good match before you let the rig do its best.

Note that if you really want less power out, you can leave your Tayloe bridge in the tune position, and them you'll have about 6 db less (1/4 power) compared to what you had straight through - assuming a 50 ohm match.

Has anyone tried maxing out a set of BS-170's? How high will they go before they fail? Has anyone tried a single (larger) mosfet in these rigs? Who will be the first to get 10W out of an ATS rig? I'm serious...just not with MY rig...

72
KX0R

--- In AT_Sprint@...m, "Steven Weber" <steve.kd1jv@...> wrote:
>

> The pin out is reveresed. With flat side towards you, 2N7000 goes DGS while the BS170 goes SGD. So, if replacing 2N7000 with BS170, the BS170 must be installed "backwards" to the outline of the 2N7000.
>
> Hello Steve
> I take this opportunity to ask a question
> I have BS170 stock because you never know what can happen ...
> is it possible to place 3 BS170 without changing the polarization
> in ATS3A?
>

10066. Re: ATS-series BS-170 Finals and Tuning Protection

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-24 10:05:08 UTC
From: PGSchreier
Topic: 10026 Message: 10066

I would *love* to see built-in protection for the output stage of my ATS4. Steve, that would be #1 on my wish list! Please?

I've already burned up two sets of B170s -- one with an inadvertent high SWR using an AlexLoop (when on a SOTA a stranger stuck his head near the loop to read the label and in the process totally de-tuned the loop), the second by running my LiPo battery at 12.4V with the replaced B170s, which I was unable to bring exactly to the case as a heat sink. Well, they're apparently not totally burned out, I still get almost 2W output with 11.4V in.

I'll have to look at KX0R's heat sink solution as a possible remedy. Meanwhile, I charge my LiPo, then bring it down to "storage" level at 11.4V and take it into the field at that level. I find that I can run between 4 to 6 SOTA activations between recharges. Between times the battery sits in a fireproof "battery safe" bag in our refrigerator.

73,
Paul AA1MI / HB9DST

10067. Re: [AT_Sprint] Re: ATS-series BS-170 Finals and Tuning Protection

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-24 12:40:39 UTC
From: Lee Hiers
Topic: 10026 Message: 10067

On Nov 24, 2012 at 5:05 AM, PGSchreier <aa1mi@...> wrote:

> Meanwhile, I charge my LiPo, then bring it down to "storage" level at
> 11.4V and take it into the field at that level. I find that I can run
> between 4 to 6 SOTA activations between recharges. Between times the
> battery sits in a fireproof "battery safe" bag in our refrigerator.
>

What is the mAH capacity of your LiPo pack?

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10068. RE: [AT_Sprint] Re: ATS-series BS-170 Finals and Tuning Protection

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-24 13:57:10 UTC
From: Mike Olbrisch
Topic: 10026 Message: 10068

Lee,

I have several new Li-Po batteries. I have some 350mah, 500mah, 800mah and 1200mah units. It is my hope that the 350mah unit will operate for a whole two hours as in the Spartan Sprint. The 1200 should last for several hours on a summit. But I don't know for sure yet.

If I could only get my ATS-4B back from where I sent it, I would get a chance to try these batteries. If (or when) I do, I will report to you how they work. The 350 is small and light. And cheap too.

I do have a 3600mah Li-Po battery inside my FT-817, and I have run up to 4 hours on that without a problem. I don't usually spend more than 4 hours on a summit anyway.

Mike - KD9KC.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Lee Hiers
Sent: Saturday, November 24, 2012 05:41
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: ATS-series BS-170 Finals and Tuning Protection

On Nov 24, 2012 at 5:05 AM, PGSchreier <aa1mi@...> wrote:
Meanwhile, I charge my LiPo, then bring it down to "storage" level at 11.4V and take it into the field at that level. I find that I can run between 4 to 6 SOTA activations between recharges. Between times the battery sits in a fireproof "battery safe" bag in our refrigerator.
What is the mAH capacity of your LiPo pack?

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com
Submit your totals to the unofficial QRP DXCC standings - go to http://www.aa4ga.com/p/qrp-dxcc.html for more info!

10069. Re: ATS-series BS-170 Finals and Tuning Protection

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-24 17:06:02 UTC
From: pgschreier
Topic: 10026 Message: 10069

Hi Lee,

It's 3300 mAh (a 3S 3-cell model).

73
Paul

--- In AT_Sprint@yahoogroups.com, Lee Hiers <lee.hiers@...> wrote:
>
> On Nov 24, 2012 at 5:05 AM, PGSchreier <aa1mi@...> wrote:
>
> > Meanwhile, I charge my LiPo, then bring it down to "storage" level at
> > 11.4V and take it into the field at that level. I find that I can run
> > between 4 to 6 SOTA activations between recharges. Between times the
> > battery sits in a fireproof "battery safe" bag in our refrigerator.
> >
> What is the mAH capacity of your LiPo pack?
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to *
> http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
>

10070. Re: [AT_Sprint] Re: ATS-series BS-170 Finals and Tuning Protection

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-24 19:19:36 UTC
From: Steven Weber
Topic: 10026 Message: 10070

> I've already burned up two sets of B170s -- one with an inadvertent high
> SWR using an AlexLoop (when on a SOTA a stranger stuck his head near the
> loop to read the label and in the process totally de-tuned the loop),

^^^ Thats not something one would expect to happen! Heat sinking has little or nothing to do with it. If the FETs are running more than slightly warm to the touch, even at 5W out, then something isn't right.

As I've noted before, over current is the PA killer. The simplest protection would be a 1A fast blow in-line fuse (and a fist full of spares). This is a good idea to add when using any high current capacity supply, battery or bench.

I suppose it could be possible to make a fast current limiter. One which would reduce the voltage to keep the current from exceeding a safe level would be ideal, rather then the over current rest I did on the 3B's which most people found more annoying then useful. I'll have to think about that.

72, Steve KD1JV

10071. Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-24 21:17:09 UTC
From: jor
Topic: 10026 Message: 10071

Hi Steve,

Is there any good reson not to use a stronger FET in the AT-sprint PA
like the Farchild IRLR/U110A with a Ciss of 180pF ?
Or the Farchild RF power FET PD85004, 4 watt output (DigiKey euro 2.92) Cost a litle more
bud are stronger for high SWR ?.

73' Joris PE1KTH

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> >
> > If I replace the 2N7000's with BS170 do I have to repeak the filter coils
> > or are the cpacitances similar?
> >
>
> No, will work the same.
>

10072. Re: ATS-series BS-170 Finals and Tuning Protection

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-24 22:18:05 UTC
From: ok1au
Topic: 10026 Message: 10072

Hi,
We are using LiPo 600mAh. After about 100 QSO still has 11.5V. Super. Lightweight, cheap.

73
Stan OK1AU

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> Lee,
>
> I have several new Li-Po batteries. I have some 350mah, 500mah, 800mah and
> 1200mah units. It is my hope that the 350mah unit will operate for a whole
> two hours as in the Spartan Sprint. The 1200 should last for several hours
> on a summit. But I don't know for sure yet.
>
> If I could only get my ATS-4B back from where I sent it, I would get a
> chance to try these batteries. If (or when) I do, I will report to you how
> they work. The 350 is small and light. And cheap too.
>
> I do have a 3600mah Li-Po battery inside my FT-817, and I have run up to 4
> hours on that without a problem. I don't usually spend more than 4 hours on
> a summit anyway.
>
> Mike - KD9KC.
>
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of Lee Hiers
> Sent: Saturday, November 24, 2012 05:41
> To: AT_Sprint@yahoogroups.com
> Subject: Re: [AT_Sprint] Re: ATS-series BS-170 Finals and Tuning Protection
>
>
>
> On Nov 24, 2012 at 5:05 AM, PGSchreier <aa1mi@...> wrote:
> Meanwhile, I charge my LiPo, then bring it down to "storage" level at
> 11.4V and take it into the field at that level. I find that I can run
> between 4 to 6 SOTA activations between recharges. Between times the
> battery sits in a fireproof "battery safe" bag in our refrigerator.
> What is the mAH capacity of your LiPo pack?
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
> Submit your totals to the unofficial QRP DXCC standings - go to

> http://www.aa4ga.com/p/qrp-dxcc.html for more info!
>

10073. Useful life of LiPO cells

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-25 01:01:54 UTC
From: Hank Greeb
Topic: 10026 Message: 10073

Mike:

I have a bank of 8 AA size NiMH cells, 1600 MAH, 9.6 volts nominal.
They ran my AT-Sprint (original version) for 10 hours @ 3 watts out
during the August 2012 NaQP contest. Made 175 Q's. I'd say your 1200
MAH LiPO's should be great for SOTA work. I think the bellandwhistles
of the 4b might take a bit more power than my rig, but not that much more.

72/73 de n8xx Hg
QRP >99.44% of the time

On 11/24/2012 8:57 AM, Mike Olbrisch wrote:
>
> Lee,
>
> I have several new Li-Po batteries.I have some 350mah, 500mah, 800mah
> and 1200mah units.It is my hope that the 350mah unit will operate for
> a whole two hours as in the Spartan Sprint.The 1200 should last for
> several hours on a summit.But I don't know for sure yet.
>
> If I could only get my ATS-4B back from where I sent it, I would get a
> chance to try these batteries.If (or when) I do, I will report to you
> how they work.The 350 is small and light.And cheap too.
>
> I do have a 3600mah Li-Po battery inside my FT-817, and I have run up
> to 4 hours on that without a problem.I don't usually spend more than 4
> hours on a summit anyway.
>
> Mike - KD9KC.
>

10074. Re: [AT_Sprint] Re: ATS-series rigs & autotuners?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-25 04:20:41 UTC
From: Steven Weber
Topic: 10026 Message: 10074

Typically, the gate voltage thrushold of power mosfets is too high and can't be driven directly with 5V square waves efficiently or at all, nor do they switch as fast. At least I haven't found a power fet yet which works nearly as well as the BS170s. It's really a non issue. Yes they can fail, but it's not all that common.

73, Steve KD1JV

>
> Is there any good reson not to use a stronger FET in the AT-sprint PA
> like the Farchild IRLR/U110A with a Ciss of 180pF ?
> Or the Farchild RF power FET PD85004, 4 watt output (DigiKey euro 2.92)
> Cost a litle more bud are stronger for high SWR ?.
>
> 73' Joris PE1KTH

10075. FOX FoXhunts are BACK!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-27 01:15:56 UTC
From: Dale Putnam
Topic: 10075 Message: 10075

Two fine FOXii are to be out of their dens in 25 hours, to make their pelts available to all those Happy Hunting Hounds, in the 40 acre woods.Come be a part of the most fun in 90 minutes that you can find.... on the radio. You'll find both ot the FOXii, AB9CA/4 and K9CW somewhere between the trees marked 7030 and 7050, running about 20mph...(wpm) and even tho they are shy and sly... they'll be doing their best to insure they don't carry too many pelts back into the den at 8:30pm MT (0330z). Ya'll come have fun, Y'ear? Check out the rules on http://www.qrpfoxhunt.org

--... ...--
Dale - WC7S in Wy(the humble scorekeeper)

10076. Missing 103 resistors in my ATS-4A kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-28 06:58:34 UTC
From: Saad Mahaini
Topic: 10075 Message: 10076

Hello folks,

I'm making progress on building my ATS-4A kit. However, i hit a little bump. The kit has two many 104 resistors and no 103 resistors at all. I need seven 103 resistors.

What is the part that i need to order from mouser or digikey for these? I never ordered SMT parts before so not sure what size, etc to specify

Thanks again

Saad N5FF

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2012.0.2221 / Virus Database: 2629/5422 - Release Date: 11/27/12

10077. Re: Missing 103 resistors in my ATS-4A kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-28 13:42:09 UTC
From: Saad Mahaini
Topic: 10075 Message: 10077

Folks, just got a note from Steve that he is mailing me the required parts

Thanks

Saad N5FF

On 11/28/2012 12:58 AM, Saad Mahaini wrote:
> Hello folks,
>
> I'm making progress on building my ATS-4A kit. However, i hit a
> little bump. The kit has two many 104 resistors and no 103 resistors
> at all. I need seven 103 resistors.
>
> What is the part that i need to order from mouser or digikey for
> these? I never ordered SMT parts before so not sure what size, etc to
> specify
>
> Thanks again
>
> Saad N5FF

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2012.0.2221 / Virus Database: 2629/5422 - Release Date: 11/27/12

10078. Re: [qfox] FOX FoXhunts are BACK!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-28 12:16:10 UTC
From: Doc
Topic: 10078 Message: 10078

Dale:

Well just gotta congratulate you and whomever help these exceptional *pair* of Foxes to be out and running at the very same time. I mean that I WAMM

Sent from my Verizon Wireless 4G LTE smartphone

Dale Putnam wrote:

Two fine FOXii are to be out of their dens in 25 hours, to make their pelts available to all those Happy Hunting Hounds, in the 40 acre woods.
Come be a part of the most fun in 90 minutes that you can find.... on the radio. You'll find both ot the FOXii, AB9CA/4 and K9CW somewhere
between the trees marked 7030 and 7050, running about 20mph...(wpm) and even tho they are shy and sly... they'll be doing their best
to insure they don't carry too many pelts back into the den at 8:30pm MT (0330z).
Ya'll come have fun, Y'ear?

Check out the rules on
http://www.qrpfoxhunt.org

--... ...-- Dale - WC7S in Wy
(the humble scorekeeper)

10079. DX contests make for lots of fun!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-28 18:15:08 UTC
From: charles
Topic: 10079 Message: 10079

I used my ats-3b.1 this past weekend during the dx contest and had lots of fun! Most of my contacts were made on 15 meters at about 1.7 watts to a base loaded whip which extends from my east-facing, third floor apartment window. I worked Brazil several times (4000 miles!) and the Pacific coast of Canada (2300 miles) several times too. Just couldn't break through the pile up for the Alaskan station which I heard really well for about an hour ... nevertheless, it was a great time (I spent about 10 hours operating between the two days which was plenty for qrp) ... I made a few contacts on 20 meters (running about 3.8 watts into the same antenna configuration) but it was much too crowded for me down there. Up on fifteen there were fewer stations, but loud and eager ... Russia, and all over western europe for a total of about thirty contacts! My style of operating (while watching lots of college and pro-football) would be to wear my wireless headphones and wait until I heard the DX station exhaust the pile-up and repeatedly call CQ ... then I would pounce and almost always get the station to come back. I didn't have to do too many fills either, thanks to the BIG ears on the other end. Looking on QRZ.com at some of the stations I worked and their massive antennas and towers, it is understandable that they would create pile-ups, and be able to hear my little signal!. The pleasure was immense! 73 de chas ai4ot

10080. Wed Nite Nets

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-28 20:12:03 UTC
From: WA0ITP
Topic: 10080 Message: 10080

The Four State QRP Group's Comfortable nets meet each Wednesday night beginning at 7:00 PM CST, 0100z. Add anything to the exchange that you wish, temp rig, ant, etc. Wayne will be missing from the 40M nets tonight. Jump in and have fun anyway. The PSK net at 9P is picking up in activity. So if you like PSK, give Dick, N0TGR a shout tonight.

7:00 CST 0100z ... 80M CW Net on 3564, WA?ITP NCS.
7:30 CST 0130z ... 40M CW Net on 7122, KC?PMH NCS
8:00 CST 0200z ... 80M CW Net on 3564, WA?ITP NCS.
8:30 CST 0230z ... 40M CW Net on 7122, KC?PMH NCS
9:00 CST 0300z ... 80M PSK Net on 3580.5, N?TGR NCS

All are welcome.

I love this radio stuff !
72 WA?ITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

10081. Re: Second run of MTR kit ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-28 22:03:17 UTC
From: k1thp
Topic: 9902 Message: 10081

Hi Steve, if you're still taking a list, put me down for a second MTR and two enclosures. Might as well make another (different bands) and upgrade my first "butchered Altoids tin".
73, de Dave K1THP
--- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
>
> Would it be possible for those of mus who built the original MTR to get a new enclosure when they are available or will the enclosure be limited to the number of new MTR kits? I am less than thrilled with my butchered
vitamin shoppe mobile vitamin shoppe twitter vitamin shoppe facebook vitamin shoppe youtube up Altoids tin.
> 72, Dave K1THP
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@> wrote:
> >
> > > When I saw Steve at the local hamfest a couple weeks ago, he indicated
> > > there may be another run of MTRs.
> >
> > I think I'll wait until after the new year to do more MTR kits. I've been
> > debating if I should have a box made for it like the ATS-4's. I probably
> > should.
> >
> > 72, Steve KD1JV
> >
>

10082. MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-29 02:14:57 UTC
From: Etienne Scott
Topic: 10082 Message: 10082

Has anyone measured the current draw of their MTR during transmit?

I was curious what the maximum transmit current consumption would be at 9V, 10V and 12V.

Thanks!

Etienne, K7ATN

10083. One suggestion for next MTR firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-29 12:34:34 UTC
From: Yannick DEVOS (XV4Y)
Topic: 10083 Message: 10083

Dear Steve and fellow ATS/MTR owners or soon to be owners,

With the dry season I will see more and more power outage like I had today.
This morning, no electricity from 7:00 to 17:00 this afternoon. I have the generator running several time during the day for the refrigerator but keeping it running just for playing radio is a bit expensive.

Well, what I wanted to say is that in the coming months I will use my MTR running on batteries more even at home.
I have no comments about the general specifications of the rig and as I am aware of what it was design for I am really happy with it.
Ergonomic, performance, and price are outstanding for kit that you can proudly show to the less lucky ones using only commercial equipment.

I have only one suggestion about the ergonomic and I think that can be easily implemented in the firmware.
I should even do it myself but I am so bad at assembler that I could do more bad than good fiddling in the code (even if I learnt MC6803 ASM when I was 11).
When tuning the band looking for a signal, I would like to have the 8-seg LED display to flash a 0 and 5 when crossing every 10 KHz or 5KHz.
Without, I often find myself obliged to stop tuning just to hit "MENU" and check if I am not too high or too low in the portion of band I want to scan.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

10084. Re: [AT_Sprint] MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-29 13:02:27 UTC
From: Yannick (XV4Y)
Topic: 10082 Message: 10084

Hi Etienne,

Mine is using 350mA for around 3W out on 30m with 11,4V in.

Yan.

Yannick DEVOS - XV4Y
New online shop for kits and more
http://xv4y.radioclub.asia/boutique/

Le 29 nov. 2012 à 09:14, Etienne Scott a écrit :

> Has anyone measured the current draw of their MTR during transmit?
>
> I was curious what the maximum transmit current consumption would be at 9V, 10V and 12V.
>
> Thanks!
>
> Etienne, K7ATN
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>

10085. Re: [AT_Sprint] One suggestion for next MTR firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-29 15:32:40 UTC
From: Randy Moore
Topic: 10083 Message: 10085

Yan, I think that's a great suggestion! Another possibility might be an audio indication.

73,
Randy, KS4L

On Nov 29, 2012, at 6:34 AM, "Yannick DEVOS (XV4Y)" <yannick.devos@...> wrote:

> When tuning the band looking for a signal, I would like to have the 8-seg LED display to flash a 0 and 5 when crossing every 10 KHz or 5KHz.
>
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
>
>
>
>
>
>

10086. Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-29 16:34:34 UTC
From: Etienne Scott
Topic: 10082 Message: 10086

Yan -
Thanks for the data point - - that suggests an overall efficiency of 75% - - an amazing rig!
I'm interested in seeing a few more current measurements if anyone has one.
72s,
Etienne, K7ATN

--- In AT_Sprint@yahoogroups.com, "Yannick (XV4Y)" <yannick.devos@...> wrote:
>
> Hi Etienne,
>
> Mine is using 350mA for around 3W out on 30m with 11,4V in.
>
> Yan.
> ---
> Yannick DEVOS - XV4Y
> New online shop for kits and more
> http://xv4y.radioclub.asia/boutique/
>
>
>
> Le 29 nov. 2012 à 09:14, Etienne Scott a écrit :
>
> > Has anyone measured the current draw of their MTR during transmit?
> >
> > I was curious what the maximum transmit current consumption would be at 9V, 10V and 12V.
> >
> > Thanks!
> >
> > Etienne, K7ATN
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>

10087. Re: [AT_Sprint] One suggestion for next MTR firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-30 08:53:53 UTC
From: Yannick (XV4Y)
Topic: 10083 Message: 10087

Hi Randy,

Well, about the audio indication, the problem is that the "dit" is already used by the band limits indication.
Using a "double dit" for tens of KHz could be misleading and modifying the actual behavior of the firmware for the band limits could be disturbing for current users.

About the band limits, I found a strange behavior, I don't if it is a bug.
I am using the corrected firmware dated 25 May 2012 by VK2DDJ.

I am mostly using 20m so I did not notice this before and it is not really annoying to me.
On 30m VK2DDJ set the limit to 10.125. It is too low for me as there are significant activity up in the band sometime.
When tuning, the MTR stopped at 10.120 (not 10.125). Using the UP button it is impossible to tune upward.
If use the DFE mode, I can set the frequency to 10.121 or 10.200 (did not try upper).
Then, if I use the UP button, the rig refuses to go upward, but using the DOWN button I can tune downward to 10.100...

73,
Yan.

Yannick DEVOS - XV4Y
New online shop for kits and more
http://xv4y.radioclub.asia/boutique/

Le 29 nov. 2012 à 22:32, Randy Moore a écrit :

>
>
> Yan, I think that's a great suggestion! Another possibility might be an audio indication.
>
> 73,
> Randy, KS4L
>
> On Nov 29, 2012, at 6:34 AM, "Yannick DEVOS (XV4Y)" <yannick.devos@...> wrote:
>
>> When tuning the band looking for a signal, I would like to have the 8-seg LED display to flash a 0 and 5 when crossing every 10 KHz or 5KHz.
>>
>> ---
>> Yannick DEVOS - XV4Y
>> http://xv4y.radioclub.asia/
>> http://varc.radioclub.asia/
>>
>>

>>
>>
>>
>>
>>
>
>
>

10088. Re: [AT_Sprint] Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-30 08:54:57 UTC
From: Yannick (XV4Y)
Topic: 10082 Message: 10088

Given it allows me to make QSOs when and where I was not able before, real efficiency is even higher!

Yan.

Yannick DEVOS - XV4Y
New online shop for kits and more
http://xv4y.radioclub.asia/boutique/

Le 29 nov. 2012 à 23:34, Etienne Scott a écrit :

> Yan -
> Thanks for the data point - - that suggests an overall efficiency of 75% - - an amazing rig!
> I'm interested in seeing a few more current measurements if anyone has one.
> 72s,
> Etienne, K7ATN
>
> --- In AT_Sprint@yahoogroups.com, "Yannick (XV4Y)" <yannick.devos@...> wrote:
>>
>> Hi Etienne,
>>
>> Mine is using 350mA for around 3W out on 30m with 11,4V in.
>>
>> Yan.
>> ---
>> Yannick DEVOS - XV4Y
>> New online shop for kits and more
>> http://xv4y.radioclub.asia/boutique/
>>
>>
>>
>> Le 29 nov. 2012 à 09:14, Etienne Scott a écrit :
>>
>>> Has anyone measured the current draw of their MTR during transmit?
>>>
>>> I was curious what the maximum transmit current consumption would be at 9V, 10V and 12V.
>>>
>>> Thanks!
>>>
>>> Etienne, K7ATN
>>>
>>>
>>>
>>> ------------------------------------

```
>>>
>>> Yahoo! Groups Links
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> ------------------------------------
>
> Yahoo! Groups Links
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10089. Keying an external power amplifier

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-11-30 23:52:32 UTC
From: Yannick
Topic: 10089 Message: 10089

Hi,

I have a couple of used surplus PA using a push-pull of 2SC2290 in class C.
http://capheda.files.wordpress.com/2010/06/100_2425.jpg

I have been using one successfully with my SoftRock RXTX, putting out 10W for a little less than 1W in.
I would like to try them with the Mountain Topper Rig.
What is the best way to have a keying signal from the MSP430 ?
Can I use the signal from P1.7 (pin 28) and somehow add a circuit similar to Q3 in parallel (using a Bs170) ?

Thanks for your help.
73,
Yan - XV4Y.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

10090. MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 03:14:15 UTC
From: Steven Weber
Topic: 10090 Message: 10090

Just to let every one know I got the ball rolling on getting a custom MTR case made by Ten-Tec. It will be about 8 weeks before they are ready, so looks like the end of January. I'll try to have more MTR kits ready about that time too.

The price for just a case will be $20 plus a little for postage. The top will be painted and silk screened. I decided on blue for the color. The bottom piece will be left unfinished aluminum, which should be a decent contrast to the blue, but you can paint it if you like. The box will be about the size of an Altoids tin, but a tad taller at 1.1".

There will be enough space inside the case to install a 9V radio battery if you like. However, you'll need to add an on/off switch and you'll have to make the hole for that yourself.

72, Steve KD1JV

10091. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 04:41:41 UTC
From: Lee Hiers
Topic: 10090 Message: 10091

Sounds great Steve!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

On Tue, Dec 4, 2012 at 10:14 PM, Steven Weber <steve.kd1jv@...> wrote:

The box will be
> about the size of an Altoids tin, but a tad taller at 1.1".
>
> There will be enough space inside the case to install a 9V radio battery
> if
> you like. However, you'll need to add an on/off switch and you'll have to
> make the hole for that yourself.
>

10092. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 05:09:18 UTC
From: Steven
Topic: 10090 Message: 10092

Steve, will you be selling cases as ad on options with purchase of a basic MTR? And will the cases be available alone for previous MTR BUILDERS

I have one MTR mounted in a homemade aluminum enclosure. When available I would like to order a second MTR and two cases.

I assume that at some point you announce that you are accepting orders.

Ten Tec does fine custom work. God choice.

73 Steve, K8IDN.

Sent from my iPad

On Dec 4, 2012, at 22:14, "Steven Weber" <steve.kd1jv@...> wrote:

> Just to let every one know I got the ball rolling on getting a custom MTR
> case made by Ten-Tec. It will be about 8 weeks before they are ready, so
> looks like the end of January. I'll try to have more MTR kits ready about
> that time too.
>
> The price for just a case will be $20 plus a little for postage. The top
> will be painted and silk screened. I decided on blue for the color. The
> bottom piece will be left unfinished aluminum, which should be a decent
> contrast to the blue, but you can paint it if you like. The box will be
> about the size of an Altoids tin, but a tad taller at 1.1".
>
> There will be enough space inside the case to install a 9V radio battery if
> you like. However, you'll need to add an on/off switch and you'll have to
> make the hole for that yourself.
>
> 72, Steve KD1JV
>
>
>
> ----------
>
> Yahoo! Groups Link
>
>
>

10093. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 10:37:02 UTC
From: Milton Riutort
Topic: 10090 Message: 10093
Attachments: 3 described; binary payloads are missing from this source WARC

Hi Steve:

Let me tell you that mine use a little top edge that help protect the radio controls buttons when package and also thus can be extended on the antenna side for protection too.

Anyway, I guess you already have the box design. Mine is also blue, but in light color with the base painted in light gray too. The color combination is very good for me.

Good luck,
Milton
NP4KT

Sent from my iPhone

On Dec 4, 2012, at 11:14 PM, "Steven Weber" <steve.kd1jv@...> wrote:

> Just to let every one know I got the ball rolling on getting a custom MTR
> case made by Ten-Tec. It will be about 8 weeks before they are ready, so
> looks like the end of January. I'll try to have more MTR kits ready about
> that time too.
>
> The price for just a case will be $20 plus a little for postage. The top
> will be painted and silk screened. I decided on blue for the color. The
> bottom piece will be left unfinished aluminum, which should be a decent
> contrast to the blue, but you can paint it if you like. The box will be
> about the size of an Altoids tin, but a tad taller at 1.1".
>
> There will be enough space inside the case to install a 9V radio battery if
> you like. However, you'll need to add an on/off switch and you'll have to
> make the hole for that yourself.
>
> 72, Steve KD1JV
>
>

10094. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 14:27:06 UTC
From: cloud runner
Topic: 10090 Message: 10094
Attachments: 3 described; binary payloads are missing from this source WARC

What a beautiful case !!!!!

73, Fred - kt5x

aka WS0TA
--

Hi Steve:

Let me tell you that mine use a little top edge that help protect the radio controls buttons when package and also thus can be extended on the antenna side for protection too.

Anyway, I guess you already have the box design. Mine is also blue, but in light color with the base painted in light gray too. The color combination is very good for me.

Good luck,
Milton
NP4KT

10095. Any news on the 160/80 rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 14:33:26 UTC
From: Hank Greeb
Topic: 10090 Message: 10095

I've been very interested in the 160/80 meter rig which Steve mentioned some time back.

Last word was "still in design phase." (or something to that effect)

Just curious, any new info?

Waiting on pinzandneedles.

72/73 de n8xx Hg

10096. Hello All Newbie

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 17:21:29 UTC
From: Philip Townsend Lontz
Topic: 10096 Message: 10096

Hi all
my name is Phil and I live in Santa Fe, NM. I would love to be able to do SOTA's , run up mountains etc... I am just starting to relearn CW again after many years of neglect and SSB.
Love to build my own gear solid state or hollow state (tubes) happy to do surface mount or thru hole. Look forward to building some new ATS stuff.
K5SSR
Phil

Sent, as to how? Who cares!

10097. Wed Nite Nets

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 17:55:50 UTC
From: WA0ITP
Topic: 10080 Message: 10097

The Four State QRP Comfortable nets meet each Wednesday night beginning at 7:00 PM CST, 0100z. If we have to QSY, I like to move up, and Wayne likes to move down. Add anything to the exchange that you wish, temp rig, ant, etc.

7:00 CST 0100z ... 80M CW Net on 3564, WA?ITP NCS.
7:30 CST 0130z ... 40M CW Net on 7122, KC?PMH NCS
8:00 CST 0200z ... 80M CW Net on 3564, WA?ITP NCS.
8:30 CST 0230z ... 40M CW Net on 7122, KC?PMH NCS
9:00 CST 0300z ... 80M PSK Net on 3580.5, N?TGR NCS

All are welcome.

I love this radio stuff !
72 WA?ITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

10098. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 18:06:15 UTC
From: Steven Weber
Topic: 10090 Message: 10098

Milton,

The case Jerry at Ten-Tec suggested after looking at my inital design, which was like my ATS-4 case, is very similer to what you did except the other way around. The top piece is folded down along the front and back instead of the sides. This allows the antenna, power and paddle jack to be mounted on the back side and the head phone jack on the front. I belive this is a more logical place to put those jacks. Edges on the bottom piece will stick up above the top of the case along the sides instead of the front and back.

The top piece will be made from 036 steel and the bottom from 062 aluminum. The two pieces are held together with a screw on either side, near the top.

Steve KD1JV

Let me tell you that mine use a little top edge that help protect the radio controls buttons when package and also thus can be extended on the antenna side for protection too.

10099. Re: [AT_Sprint] Any news on the 160/80 rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 18:18:45 UTC
From: Steven Weber
Topic: 10090 Message: 10099

I was runing into some problems and put the project on hold as I had some other more pressing things to take care of. I hope to get back to this project soon and with luck, figure out how to make it work the way it should...

Steve

I've been very interested in the 160/80 meter rig which Steve mentioned some time back.

Last word was "still in design phase." (or something to that effect)

10100. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 18:28:04 UTC
From: Steven Weber
Topic: 10090 Message: 10100

> Steve, will you be selling cases as ad on options with purchase of a basic
> MTR? And will the cases be available alone for previous MTR BUILDERS
>

The next batch of MTR's will come with the case. I can't see where very many wouldn't want one, so it makes no sense to make it an option (and my potentually being stuck with a bunch of cases).

I'm having an extra 100 cases made for previous MTR builders. This is about 50 short of the number of kits out there, but I figure at least that many have put the board in a case which they are happy with.

Steve

10101. Re: [AT_Sprint] Any news on the 160/80 rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 18:28:03 UTC
From: Hank Greeb
Topic: 10090 Message: 10101

OK, at least you know that you have an audience (of at least one, hopefully more) waiting with bated breath for any news of this project!

Hope you get the more pressing items resolved!

72/73 de n8xx Hg
QRP >99.44% of the time

On 12/5/2012 1:18 PM, Steven Weber wrote:
> □
> I was runing into some problems and put the project on hold as I had
> some other more pressing things to take care of. I hope to get back to
> this project soon and with luck, figure out how to make it work the
> way it should...
> Steve
>
> I've been very interested in the 160/80 meter rig which Steve
> mentioned some time back.
>
> Last word was "still in design phase." (or something to that effect)

10102. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 18:37:23 UTC
From: Jonathan
Topic: 10090 Message: 10102

Thanks, as always, Steve.
My abortive attempt to shoehorn my MTR into an altoids tin is here:
http://www.flickr.com/photos/jonathancharles/8220840616/
I discovered--by my own stupidity--that the Altoids tin won't work without some pigtails or some very tight squeezes--nearly impossible. Then I remembered that you might have warned us of this.
One positive thing I learned was that the height of the buttons and switches felt really great in the recessed plexiglass divots I drilled and formed. I might use this idea in the future--because most of the fun of building the MTR is being able to SHOW the MTR.
Jonathan KC7FYS

>_____
> From: Steven Weber <steve.kd1jv@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Wednesday, December 5, 2012 12:28 PM
>Subject: Re: [AT_Sprint] MTR custom cases
>
>
>
>
>
>> Steve, will you be selling cases as ad on options with purchase of a basic
>> MTR? And will the cases be available alone for previous MTR BUILDERS
>>
>
>The next batch of MTR's will come with the case. I can't see where very many
>wouldn't want one, so it makes no sense to make it an option (and my
>potentually being stuck with a bunch of cases).
>
>I'm having an extra 100 cases made for previous MTR builders. This is about
>50 short of the number of kits out there, but I figure at least that many
>have put the board in a case which they are happy with.
>
>Steve
>
>
>
>
>

10103. New MTR kits (trying to be patient!)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 18:57:50 UTC
From: Keith Hamilton
Topic: 10103 Message: 10103

Really looking forward to a new MTR kit in 2013 (with case!) I am relatively new to the group and missed out on the ATS series and the first MTR run. I may ask Santa to put aside some gift money until the New Year!

73
Keith N8CEP

10104. Another question about 160 & 80 Meter possibilities

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 19:06:07 UTC
From: Hank Greeb
Topic: 10090 Message: 10104

All the talk about the Mountain Top (two band) radio makes me wonder - would it be possible to modify the software for the MTR, the output filter, and maybe (probably?) a few other things which don't come to my foggy (lack of) brain, and have a 160/80 meter "pseudo MTR?" Don't know that anyone would want to operate on 160 or 80 from a mountain top, but there are other uses for these neat, itty bitty rigs.

72/73 de n8xx Hg
QRP >99.44% of the time

p.s. The versatility of these rigs, and the possibilities for operating @ 3 to 5 watts with a rig which fits in the palm of one's hand, never ceases to amaze me!

10105. Re: [AT_Sprint] Another question about 160 & 80 Meter possibilities

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 19:08:53 UTC
From: TJ Campie
Topic: 10090 Message: 10105

Its not hard to develop a 5w radio that fits in your hand, the hard part is making it work worth a darn! Steve is the master of the last part

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Dec 5, 2012 at 1:06 PM, Hank Greeb <n8xx@...> wrote:

> **
>
>
> All the talk about the Mountain Top (two band) radio makes me wonder -
> would it be possible to modify the software for the MTR, the output filter,
> and maybe (probably?) a few other things which don't come to my foggy (lack
> of) brain, and have a 160/80 meter "pseudo MTR?" Don't know that anyone
> would want to operate on 160 or 80 from a mountain top, but there are other
> uses for these neat, itty bitty rigs.
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>
> p.s. The versatility of these rigs, and the possibilities for operating @
> 3 to 5 watts with a rig which fits in the palm of one's hand, never ceases
> to amaze me!
>
>

10106. Re: [AT_Sprint] New MTR kits (trying to be patient!)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 19:10:39 UTC
From: Wayne Dillon
Topic: 10103 Message: 10106

You and me both Keith!

On Wed, Dec 5, 2012 at 12:57 PM, Keith Hamilton <tuner@...>wrote:

> Really looking forward to a new MTR kit in 2013 (with case!) I am
> relatively new to the group and missed out on the ATS series and the first
> MTR run. I may ask Santa to put aside some gift money until the New Year!
>
> 73
> Keith N8CEP
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
http://www.qsl.net/kc0pmh/ Under construction but please visit anyway.
**
QRP - *EFFICIENCY AND SKILL, NOT POWER.*

I'm British by birth but American by CHOICE!

Jesus came to pay a debt He didn't owe because we owe a debt we cannot
pay...

May the Good Lord make His face to shine upon you.
God Bless from Wayne Dillon - KC0PMH

Joshua 24:14-15
2 Cor 5:17
1 Jn 2:17

http://www.4sqrp.com/index.php

4 State QRP Group NCS - 40m & 160m
FPQRP #342 (Flying Pigs QRP Club)
G-QRP-C #11504
NAQCC # 0759
QRP-ARCI #11505
SKCC #1155
SOC #848

30MDG#1176
NEQRP #693

10107. Re: [AT_Sprint] Another question about 160 & 80 Meter possibilities

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 19:14:03 UTC
From: lmlangenfeld tds.net
Topic: 10090 Message: 10107

Seems to me there were reports some time back that someone, somewhere had successfully modified an ATS-3B for 160.
*
*
72/3,
*
*
*Mark -- WA9ETW
*
On Wed, Dec 5, 2012 at 1:06 PM, Hank Greeb <n8xx@...> wrote:

> **
>
>
> All the talk about the Mountain Top (two band) radio makes me wonder -
> would it be possible to modify the software for the MTR, the output filter,
> and maybe (probably?) a few other things which don't come to my foggy (lack
> of) brain, and have a 160/80 meter "pseudo MTR?" Don't know that anyone
> would want to operate on 160 or 80 from a mountain top, but there are other
> uses for these neat, itty bitty rigs.
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>
> p.s. The versatility of these rigs, and the possibilities for operating @
> 3 to 5 watts with a rig which fits in the palm of one's hand, never ceases
> to amaze me!
>
>

10108. Re: [AT_Sprint] Another question about 160 & 80 Meter possibilities

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 19:18:08 UTC
From: Hank Greeb
Topic: 10090 Message: 10108

I agree wholeheartedly!

On 12/5/2012 2:08 PM, TJ Campie wrote:
>
> Its not hard to develop a 5w radio that fits in your hand, the hard
> part is making it work worth a darn! Steve is the master of the last
> part
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Wed, Dec 5, 2012 at 1:06 PM, Hank Greeb <n8xx@...
> <mailto:n8xx@...>> wrote:
>
> All the talk about the Mountain Top (two band) radio makes me
> wonder - would it be possible to modify the software for the MTR,
> the output filter, and maybe (probably?) a few other things which
> don't come to my foggy (lack of) brain, and have a 160/80 meter
> "pseudo MTR?" Don't know that anyone would want to operate on 160
> or 80 from a mountain top, but there are other uses for these
> neat, itty bitty rigs.
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>
> p.s. The versatility of these rigs, and the possibilities for
> operating @ 3 to 5 watts with a rig which fits in the palm of
> one's hand, never ceases to amaze me!
>

10109. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 19:48:09 UTC
From: Phillip Townsend Lontz
Topic: 10090 Message: 10109

Hi Steve
Is there an order list for the new MTR and case?
Phil
Santa Fe
K5SSR

Sent... That should be enough.

On Dec 5, 2012, at 11:28 AM, Steven Weber <steve.kd1jv@...> wrote:

> Steve, will you be selling cases as ad on options with purchase of a basic
> MTR? And will the cases be available alone for previous MTR BUILDERS
>

The next batch of MTR's will come with the case. I can't see where very many wouldn't want one, so it makes no sense to make it an option (and my potentually being stuck with a bunch of cases).

I'm having an extra 100 cases made for previous MTR builders. This is about 50 short of the number of kits out there, but I figure at least that many have put the board in a case which they are happy with.

Steve

10110. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 20:37:02 UTC
From: WA0ITP
Topic: 10090 Message: 10110

GA Phil,

Steve doesnt do lists, and I can sympathize. They are waay too time consuming.

I love this radio stuff !
72 WAØITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: Phillip Townsend Lontz
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, December 05, 2012 1:48 PM
Subject: Re: [AT_Sprint] MTR custom cases

Hi Steve
Is there an order list for the new MTR and case?
Phil
Santa Fe
K5SSR

Sent... That should be enough.

On Dec 5, 2012, at 11:28 AM, Steven Weber <steve.kd1jv@gmail.com> wrote:

> Steve, will you be selling cases as ad on options with purchase of a basic
> MTR? And will the cases be available alone for previous MTR BUILDERS
>

The next batch of MTR's will come with the case. I can't see where very many
wouldn't want one, so it makes no sense to make it an option (and my
potentually being stuck with a bunch of cases).

I'm having an extra 100 cases made for previous MTR builders. This is about
50 short of the number of kits out there, but I figure at least that many
have put the board in a case which they are happy with.

Steve

10111. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 21:37:19 UTC
From: Milton Riutort
Topic: 10090 Message: 10111

Hi Steve:

I am sure either way it helps keep secure the MTR when traveling. I want to use .062 aluminum on both parts, but didn't have any available at home. Ja

The back panel design this way, can be extended a little more to create a better protection for the antenna and other connectors on each side. But again, the material available was not enough.

The ATS4 box you create was really the starting point for my one.

Best wishes this Christmas.

Milton
NP4KT

Sent from my iPhone

On Dec 5, 2012, at 2:06 PM, "Steven Weber" <steve.kd1jv@...> wrote:

> □
>
> Milton,
>
> The case Jerry at Ten-Tec suggested after looking at my inital design, which was like my ATS-4 case, is very similer to what you did except the other way around. The top piece is folded down along the front and back instead of the sides. This allows the antenna, power and paddle jack to be mounted on the back side and the head phone jack on the front. I belive this is a more logical place to put those jacks. Edges on the bottom piece will stick up above the top of the case along the sides instead of the front and back.
>
> The top piece will be made from 036 steel and the bottom from 062 aluminum. The two pieces are held together with a screw on either side, near the top.
>
> Steve KD1JV
>
> Let me tell you that mine use a little top edge that help protect the radio controls buttons when package and also thus can be extended on the antenna side for protection too.
>
>
>

10112. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-05 23:17:04 UTC
From: mbhayden
Topic: 10090 Message: 10112

The new case looks great but there is something very MTR-esque about building into a Altoids box. I have come to associate the ATS and MTR line with mint tins. I don't think I could possibly switch either of mine without psychotherapy.

I hope that if you ever rev the design it will still fit in one because I think there is nothing cooler than one of your rigs in a tiny box.

Mike AK3F

On Wed, Dec 5, 2012 at 1:28 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
>
>
> > Steve, will you be selling cases as ad on options with purchase of a
> basic
> > MTR? And will the cases be available alone for previous MTR BUILDERS
> >
>
> The next batch of MTR's will come with the case. I can't see where very
> many
> wouldn't want one, so it makes no sense to make it an option (and my
> potentually being stuck with a bunch of cases).
>
> I'm having an extra 100 cases made for previous MTR builders. This is
> about
> 50 short of the number of kits out there, but I figure at least that many
> have put the board in a case which they are happy with.
>
> Steve
>
>
>

10113. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-06 16:28:15 UTC
From: Lee Hiers
Topic: 10090 Message: 10113

On Wed, Dec 5, 2012 at 6:17 PM, mbhayden <mbhayden@...> wrote:

> The new case looks great but there is something very MTR-esque about
> building into a Altoids box. I have come to associate the ATS and MTR line
> with mint tins.
>
>
>
I tend to agree...I really like my ATS-3b in its "Sindy" Altoids tin (
http://www.aa4ga.com/2012/04/steve-webers-ats-3b.html), but also like the
idea of a finished box for the MTR so I wouldn't have to cut all those
little rectangular holes!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10114. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-06 18:51:12 UTC
From: Johnny Matlock
Topic: 10090 Message: 10114

Hello Lee
Heck I just think your hooked on the mints!!!
72
Johnny AC0BQ

On Thursday, December 6, 2012, Lee Hiers wrote:

> **
>
>
> On Wed, Dec 5, 2012 at 6:17 PM, mbhayden <mbhayden@...<javascript:_e({}, 'cvml', 'mbhayden@...');>
> > wrote:
>
>
>> The new case looks great but there is something very MTR-esque about
>> building into a Altoids box. I have come to associate the ATS and MTR line
>> with mint tins.
>>
>>
>>
> I tend to agree...I really like my ATS-3b in its "Sindy" Altoids tin (
> http://www.aa4ga.com/2012/04/steve-webers-ats-3b.html), but also like the
> idea of a finished box for the MTR so I wouldn't have to cut all those
> little rectangular holes!
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to *
> http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
>
>
>
>
>

10115. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-06 18:54:14 UTC
From: Lee Hiers
Topic: 10090 Message: 10115

Only the cinnamon, Johnny! ;-)

73 de Lee, AA4GA

On Thu, Dec 6, 2012 at 1:51 PM, Johnny Matlock <jomatlock@...> wrote:

> **
>
>
> Hello Lee
> Heck I just think your hooked on the mints!!!
> 72
> Johnny AC0BQ
>
>

10116. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-07 01:28:29 UTC
From: Johnny Matlock
Topic: 10090 Message: 10116

Good Luck tonite with the hunt!
I am gonna get YA!, Ha ha!

On Thu, Dec 6, 2012 at 12:54 PM, Lee Hiers <lee.hiers@...> wrote:

> **
>
>
> Only the cinnamon, Johnny! ;-)
>
> 73 de Lee, AA4GA
>
>
> On Thu, Dec 6, 2012 at 1:51 PM, Johnny Matlock <jomatlock@...>wrote:
>
>> **
>>
>>
>> Hello Lee
>> Heck I just think your hooked on the mints!!!
>> 72
>> Johnny AC0BQ
>>
>>
>
>

10117. Re: [AT_Sprint] MTR custom cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-07 01:34:56 UTC
From: Johnny Matlock
Topic: 10090 Message: 10117

Good Luck tonite with the hunt!
I am gonna get YA!, Ha ha!
Johnny

On Thu, Dec 6, 2012 at 12:54 PM, Lee Hiers <lee.hiers@...> wrote:

> **
>
>
> Only the cinnamon, Johnny! ;-)
>
> 73 de Lee, AA4GA
>
>
> On Thu, Dec 6, 2012 at 1:51 PM, Johnny Matlock <jomatlock@...>wrote:
>
>> **
>>
>>
>> Hello Lee
>> Heck I just think your hooked on the mints!!!
>> 72
>> Johnny AC0BQ
>>
>>
>
>

10118. MTR receiver offset

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-07 14:14:28 UTC
From: k3rll
Topic: 10118 Message: 10118

Thanks to this group, a previously-built MTR is now in my eager hands and has provided several excellent contacts.

However, it is necessary to use the RIT function to hear the other station clearly as the offset between transmit and receive appears off.

I've looked through the assembly manual online and ..., well that's why I'm seeking the collective wisdom of this group.
Without test equipment and with 68-year old shaky hands, how does one adjust the receiver offset to center the received signal in the passband permanently, so to speak, e.g., without using RIT each time?

Thank you,
Don, K3RLL

10119. Latest project - dual band (80/160) rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-07 17:53:47 UTC
From: WA0ITP
Topic: 9969 Message: 10119

Since Steve's new design is quite a departure from the quintessential ATS series designs, I propose a new name for it.

In the spirit of fun, since it's not my place to name it, how about calling it RC DC ? It describes both the oscillator and the receiver.

Whatcha think?

I love this radio stuff !
72 WA?ITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "Steven" <steve.kd1jv@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Friday, November 02, 2012 12:52 PM
Subject: [AT_Sprint] Latest project - dual band (80/160) rig

| Okay, here's what I have been working on recently and is almost, but not quite finished. A 80/160 dual band rig with Direct conversion receiver and a DDS/PLL hybrd VFO using all through hole parts.
|
| The DDS is a low frequency (219 kHz) signal produced by software and is used to tune an R/C VCO operating at 28 MHz and then divided down to the desired frequency.
|
| The Direct conversion Rx is a high dynamic range type with no input tuning, other than the transmitter LPF.
|
| The tranmsitter is my classic BS170 design, but with a variable PA supply built in so the power output can be adjusted.
|
| Although the VCO operates at 28 MHz, operating above 40M probably wouldn't be a good idea and will not be tested.
|
| Operation below 160 M, like the 500 kHz band should be possible.
|
| The rig includes a LCD frequency read out, built in keyer and rotary tuning.
|
| For some more info on the design see
http://kd1jv.qrpradio.com/SDDCTR/SDDCTR.htm

|
| I'm thinking of doing a very limited run of 50 kits for this, I imagine these would go quickly? I might be able to have these ready for sale by the end of the month. As for price, I haven't figured that out yet, but I would guess no more then $75.00
|
| 72, Steve KD1JV
|
|
|
| ---
|
| Yahoo! Groups Links
|
|
|

10120. Re: [AT_Sprint] MTR receiver offset

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-07 17:56:47 UTC
From: Steven Weber
Topic: 10118 Message: 10120

No, you should not have to use RIT all the time. You probably don't have the BFO trimmer set quite right.

Steve KD1JV

> Thanks to this group, a previously-built MTR is now in my eager hands and
> has provided several excellent contacts.
>
> However, it is necessary to use the RIT function to hear the other station
> clearly as the offset between transmit and receive appears off.
>
>
> Thank you,
> Don, K3RLL

10121. RE: [AT_Sprint] Latest project - dual band (80/160) rig

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-07 19:01:33 UTC
From: Dale Putnam
Topic: 9969 Message: 10121

This sounds like a great project!! and a whole lotta fun!!

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: wa0itp@...
Date: Fri, 7 Dec 2012 11:53:47 -0600
Subject: [AT_Sprint] Latest project - dual band (80/160) rig

Since Steve's new design is quite a departure from the quintessential

ATS series designs, I propose a new name for it.

In the spirit of fun, since it's not my place to name it, how about

calling it RC DC ? It describes both the oscillator and the

receiver.

Whatcha think?

I love this radio stuff !

72 WAØITP

www.wa0itp.com

www.4sqrp.com

www.qrpspots.com

----- Original Message -----

From: "Steven" <steve.kd1jv@...>

To: <AT_Sprint@yahoogroups.com>

Sent: Friday, November 02, 2012 12:52 PM

Subject: [AT_Sprint] Latest project - dual band (80/160) rig

| Okay, here's what I have been working on recently and is almost, but

not quite finished. A 80/160 dual band rig with Direct conversion

receiver and a DDS/PLL hybrd VFO using all through hole parts.

|

| The DDS is a low frequency (219 kHz) signal produced by software and is used to tune an R/C VCO operating at 28 MHz and then divided down to the desired frequency.

|

| The Direct conversion Rx is a high dynamic range type with no input tuning, other than the transmitter LPF.

|

| The tranmsitter is my classic BS170 design, but with a variable PA supply built in so the power output can be adjusted.

|

| Although the VCO operates at 28 MHz, operating above 40M probably wouldn't be a good idea and will not be tested.

|

| Operation below 160 M, like the 500 kHz band should be possible.

|

| The rig includes a LCD frequency read out, built in keyer and rotary tuning.

|

| For some more info on the design see http://kd1jv.qrpradio.com/SDDCTR/SDDCTR.htm

|

| I'm thinking of doing a very limited run of 50 kits for this, I imagine these would go quickly? I might be able to have these ready for sale by the end of the month. As for price, I haven't figured that out yet, but I would guess no more then $75.00

|

| 72, Steve KD1JV

|

|

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| Yahoo! Groups Links

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10122. ATS4 volume mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-07 19:58:26 UTC
From: cloud runner
Topic: 10122 Message: 10122

One can change a fixed resistor in the ATS4 for more volume. I experienced the result of this mod yesterday with a friend's ATS4-A. Plenty of room on the volume control.

I have an ATS4-B. My volume is a bit low, and the volume control (which works fine) is always set to maximum. Is the change equally valid for the B version, and if so, what is the change???

Thanks,

73 Fred - kt5x

10123. Re: [AT_Sprint] ATS4 volume mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-07 21:08:47 UTC
From: Steven Weber
Topic: 10122 Message: 10123

The 4B has an AGC circuit which limits the max volume. This can be increased by removing R46. Unless your talking about side tone volume, in which case the 4B has an independent level pot for that, which is hidden under the volume control knob.

Steve

One can change a fixed resistor in the ATS4 for more volume. I experienced the result of this mod yesterday with a friend's ATS4-A. Plenty of room on the volume control.

I have an ATS4-B. My volume is a bit low, and the volume control (which works fine) is always set to maximum. Is the change equally valid for the B version, and if so, what is the change???

Thanks,

73 Fred -

10124. MTR photo any where

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-07 22:23:20 UTC
From: Milton Riutort
Topic: 10122 Message: 10124
Attachments: 2 described; binary payloads are missing from this source WARC

I need to admit that this one looks cool on my iPhone. MTR after been finished assembled.

The original one if some one want to use it.

Milton
NP4KT

Sent from my iPhone

On Dec 7, 2012, at 5:08 PM, "Steven Weber" <steve.kd1jv@...> wrote:

>
> The 4B has an AGC circuit which limits the max volume. This can be increased by removing R46. Unless your talking about side tone volume, in which case the 4B has an independent level pot for that, which is hidden under the volume control knob.
>
> Steve
>
> One can change a fixed resistor in the ATS4 for more volume. I experienced the result of this mod yesterday with a friend's ATS4-A. Plenty of room on the volume control.
>
> I have an ATS4-B. My volume is a bit low, and the volume control (which works fine) is always set to maximum. Is the change equally valid for the B version, and if so, what is the change???
>
> Thanks,
>
> 73 Fred -
>

10125. Re: [AT_Sprint] MTR photo any where

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-07 23:04:41 UTC
From: Eric Castro (VA3AMX)
Topic: 10122 Message: 10125

Hi Milton - Nice Idea ... I will do the same with my MTR :)

72/73
Eric - VA3AMX

10126. NAQCC Sprint Tuesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-08 03:49:05 UTC
From: NAQCC
Topic: 2905 Message: 10126

NAQCC Sprint Tuesday night!

Our December sprint is this coming Tuesday evening local time (December 11, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Wednesday December 12, 0130-0330Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201212.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX for 1st, 2nd and 3rd place finishers (New!). A Certificate for top score in the GAIN antenna category.

Prizes: Too many to list!! - We're making a change in our prize drawing for the sprints. Here's a quote from the prizes page, under the main section, on the web site: "Beginning with the November 2012 sprint, a winner will be notified as soon as one is chosen. Then the first to reply gets the first choice of a prize. Before that we went by order of sprints. In other words, the June winner had to wait for the May winner to make his choice, etc. Now it's first response, first choice no matter what month. That way those who take forever to answer won't hold up those who are eager to get their prize. If someone doesn't reply at all by the end of the following month, there will be a re-drawing to choose a replacement winner for that sprint, and the one who didn't reply becomes ineligible for any future drawings. For example, the June winner has until the end of July to respond."

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6340+ members in: All 50 States - 9 VE Provinces - 90 Countries. Just sign up on the NAQCC website (http://naqcc.info/) and you will receive a handsome certificate, with your membership number which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

10127. Re: MTR receiver offset

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-08 05:28:47 UTC
From: radio_kx0r
Topic: 10118 Message: 10127

Don,

Steve is right about the BFO adjustment.

What you really should do is to go to the part of the manual on P13 (for the 4-20-2012 manual version) - available in KD1JV's FILES here on this website. This is Local Oscillator frequency trim and BFO adjustment. If I were you I would go through the whole thing. Steve's procedure is concise and will give you a precise alignment, provided you do just what it says.

Consider borrowing a scope or taking the rig to someone who has a scope, and follow the procedure. The numbered steps are all important for setting up the BFO so the desired signal is centered in the crystal filter passband, accurately lined up with the transmit signal, and so the beat tone you hear is centered in the selective audio filter.

When you tune across the filter passband, counting the steps like Steve says, be sure you go all the way across to each side while watching the signal amplitude, so you find where the crystal filter falls off rapidly at both edges of the passband. There may be small variations within the passband, but what you want to find is the the full width of the filter's passband, and then set the signal in the center of that, by counting the total steps divided by 2 like Steve says - not at the actual peak of the filter!

Since the BFO is a bit off, you would be smart to check the other adjustments on pages 12 and 13. The reference oscillator calibration may not be required, and doing it requires some equipment like a counter and/or test oscillator - usually the reference oscillators on these rigs are pretty close to start with - but if someone tried to do the cal and did it wrong, the cal could be off enough to matter.

If you want to cheat, just adjust the BFO trimmer so the receive signal lines up with the transmit signal with the RIT off. You can do this using another rig, provided its receive and transmit frequencies are lined up accurately also. Be sure to transmit both rigs into dummy load(s), not into each other! Carefully avoid excess signal into either rig's receiver!! This way you can avoid using the RIT on most signals.

However, just because the receive and transmit signals agree in your MTR doesn't tell if the rest of the alignment is right.

The receiver input filter peaking on page 13 is worth checking, because the peak on one of the trimmers for each band is really sharp and must be set carefully. Maybe the builder didn't get it quite right also. Ideally you should do this using a signal generator, but you can peak it with an antenna or other signal input. You need to make certain that whatever you connect to the MTR antenna jack is close to 50 ohms resistive before you adjust the trimmers. If you peak the trimmers with an antenna that is not exactly 50 ohms, the trimmers will be off. The easiest way to be sure is to use an RF attenuator on the antenna input - at least 10 db - that way the input of the MTR will see about 50 ohms for the adjustment. If you have enough noise coming in, you can peak on the noise if you can hear the peak. If you peak on a signal, use a signal that isn't varying in strength. Do

this adjustment for each band near the frequency you plan to use.

This is a very nice receiver once you have it adjusted!

72/73
KX0R

--- In AT_Sprint@yahoogroups.com, "k3rll" <McBride_D@...> wrote:
>
> Thanks to this group, a previously-built MTR is now in my eager hands and has provided several excellent contacts.
>
> However, it is necessary to use the RIT function to hear the other station clearly as the offset between transmit and receive appears off.
>
> I've looked through the assembly manual online and ..., well that's why I'm seeking the collective wisdom of this group.
> Without test equipment and with 68-year old shaky hands, how does one adjust the receiver offset to center the received signal in the passband permanently, so to speak, e.g., without using RIT each time?
>
> Thank you,
> Don, K3RLL
>

10128. Re: MTR receiver offset

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-08 11:58:21 UTC
From: richardk4krw
Topic: 10118 Message: 10128

Regarding the BFO alignment and a scope

If you don't have access to a scope, I've made these kinds of adjustments monitoring the audio output of the rig using digital modes software. So, if you have a computer, a digital modes interface (something like a Rigblaster or Signalink) and the software (DM780 would be one), you would be surprised at how helpful they can be. I used this setup when aligning my Wilderness Sierra rig and it really worked well.

In my case, my previous alignment made it such that narrowing the crystal filter on my Sierra made signals disappear (it wasn't centered).

The waterfall display really helped when adjusting the BFO because I could literally see the passband.

On 40 meters with no antenna connected, the ambient noise worked well as a 'semi' white noise source.

So, if you have the equipment, this is something else you can try. It has worked great for me.

10129. Re: MTR receiver offset

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-08 12:05:00 UTC
From: richardk4krw
Topic: 10118 Message: 10129

One more note:

Actually, in my case I didn't even use a sound card interface. I just ran the earphone output straight into the sound card microphone jack. It worked great. (Sorry cobwebs).

Richard - K4KRW

--- In AT_Sprint@yahoogroups.com, "richardk4krw" <r_in_remac@...> wrote:
>
> Regarding the BFO alignment and a scope
>
> If you don't have access to a scope, I've made these kinds of adjustments monitoring the audio output of the rig using digital modes software. So, if you have a computer, a digital modes interface (something like a Rigblaster or Signalink) and the software (DM780 would be one), you would be surprised at how helpful they can be. I used this setup when aligning my Wilderness Sierra rig and it really worked well.
>
> In my case, my previous alignment made it such that narrowing the crystal filter on my Sierra made signals disappear (it wasn't centered).
>
> The waterfall display really helped when adjusting the BFO because I could literally see the passband.
>
> On 40 meters with no antenna connected, the ambient noise worked well as a 'semi' white noise source.
>
> So, if you have the equipment, this is something else you can try. It has worked great for me.
>

10130. MTR Maximum Voltage?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-09 23:52:54 UTC
From: Etienne Scott
Topic: 10130 Message: 10130

All (but especially Steve W.) -

I see in the MTR Manual that the maximum voltage specification for the MTR is 12.0 volts. And I've read several places that that maximum should not be exceeded. I thus read the "point zero" very literally.

HOWEVER, I just realized that AA alkaline cells are nominal 1.5 volts but when brand new are more like 1.6 volts. Using eight fresh cells would provide 12.8 volts, unloaded. And the receive load for the MTR is tiny and would do little to reduce that voltage.

QUESTION: Is it safe to operate an MTR radio with eight NEW AA alkaline cells at ~12.8 volts??

Thanks,
Etienne, K7ATN

10131. RE: [AT_Sprint] MTR Maximum Voltage?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-10 13:39:56 UTC
From: Dale Putnam
Topic: 10130 Message: 10131

The exact fail voltage would be more accurately measured at the finals. However, I'm pretty sure that you aren't going to be wanting to carry around a lab accurate voltmeter. The concern is for the finals first, and the rest of the radio also. The usual failure is when tx, with a high voltage power source, and a tuner, or antenna that presents a very high swr to the finals thus raising the voltage at the final juctions. Interminttant antenna connections are very guilty,or arcing in a tuner. One easy cure would be to tune up with one cell removed, replaced with a shorting dummy cell... or.. use a "tuneup" switch, that would add into the powerlead a 5 ohm resistor. That would drop the voltage to the radio to a "safe to tuneup" voltage. You could also use a 9.6 volt pack. Many many times I have forgotten to go back to high power with mine, and had the battery last a whole lot longer. Good Luck,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: climb2ski97215@...
Date: Sun, 9 Dec 2012 23:52:54 +0000,
Subject: [AT_Sprint] MTR Maximum Voltage?

All (but especially Steve W.) -

I see in the MTR Manual that the maximum voltage specification for the MTR is 12.0 volts. And I've read several places that that maximum should not be exceeded. I thus read the "point zero" very literally.

HOWEVER, I just realized that AA alkaline cells are nominal 1.5 volts but when brand new are more like 1.6 volts. Using eight fresh cells would provide 12.8 volts, unloaded. And the receive load for the MTR is tiny and would do little to reduce that voltage.

QUESTION: Is it safe to operate an MTR radio with eight NEW AA alkaline cells at ~12.8 volts??

Thanks,

Etienne, K7ATN

10132. Re: MTR Maximum Voltage? I use a regulator circuit for 9 vdc constant

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-10 14:15:20 UTC
From: brianpepperdine
Topic: 10130 Message: 10132

After the concerns raised long ago on the safe(r) voltage for the ATS-4 being around 9 vdc (particularly when tuning into an unknown antenna... though using a Tayloe bridge when doing so at least keeps a more safe constant load)...

I built a small regulator circuit on vectorboard with a 7809 regulator (with heatsink) and the suggested capacitors to go between my power source and the rig.

This will deliver a constant 9 vdc in xmit and receive, no matter if I am using my home/deck, based 13.8 vdc power supply or my 12 vdc UPS-pulled battery (7 Ah big, but OK to carry to deck or beachhead or park), or if I use my 10-cell AA pack.

Brien

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
> The exact fail voltage would be more accurately measured at the finals. However, I'm pretty sure that you aren't going to be wanting to carry around a lab accurate voltmeter. The concern is for the finals first, and the rest of the radio also. The usual failure is when tx, with a high voltage power source, and a tuner, or antenna that presents a very high swr to the finals thus raising the voltage at the final juctions. Interminttant antenna connections are very guilty,or arcing in a tuner. One easy cure would be to tune up with one cell removed, replaced with a shorting dummy cell... or.. use a "tuneup" switch, that would add into the powerlead a 5 ohm resistor. That would drop the voltage to the radio to a "safe to tuneup" voltage. (etc.. .remainder removed...)

10133. QST QST QST Second plug - Team members needed for NAQP (CW)Jan 12, 2013

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-11 05:19:48 UTC
From: Hank Greeb
Topic: 10133 Message: 10133

The first solicitation back in September netted the following potential volunteers - WC7S, K8CV, N6GA, AA4GA, N1OA, and me.

We could use up to an infinite number of suckers... errr, volunteers to partake in informal "teams". To refresh your memories:

The North American QSO Party (NAQP) CW version will be held next year, Saturday, January 12, starting at 1800Z and ending Sunday, January 13, 0600Z. Six of us had a ball during the August 2012 event, yes, we REALLY did have fun. See our article about this at the web site: http://w8dc.org/grr_images/Greeb2.pdf

So much fun that I'd like to expand even more to any sucker... errr...., volunteer who would like to join a team (or teams) for the upcoming January 2013 CW NAQP. The only requirement is that you'd agree to run QRP with whatever kind of rig you prefer to use. We already have enough for one team of 5, but there's no limit to the number of teams we can have. If we have 5 rigs of the same kind, I'd make a team of those folks. If we have more than 5 rigs of the same kind, there'd be 2 (or more) teams. We can mix types of rigs for "full" teams of 5 each - it really doesn't matter.

The "interesting" part of NAQP, for the QRP op, is that it's a "semi-real" contest. It's not all blood and guts, because it is limited to 100 watts for entrants. So, rigs running 5 watts like the AT-Sprint or similar with a pair of '602's or '612's for first mixer and product detectors won't suffer from large signals overwhelming the front end. If you have a KX-3, K3, K2, or similar, that's Fine business. Or, if you have a 100 watt rig which you can crank down to 5 watts, that's great! It's the power level, not the rig type, which is important.

So, if you think you might be available for part or all of the period of 1800Z, 01/12/13 to 0600Z 01/13/13 please let me know. You needn't commit completely, but I'd like to add to the list of folks who "probably" could join such an endeavor. Part timers and operators of any ability level are cordially invited. We had one op who make >250 Q's, and one who made 4 Q's (because of family duties which got it the way of participation).

For those who are interested, rules for these QSO Parties are at http://ncjweb.com/naqprules.pdf

Please advise by private e-mail. I'll put you on the list, and remind you early in 2013 to confirm your availability.

72/73 de n8xx Hg

p.s. Note - the upcoming QRP ARCI Holiday Homebrew Sprint, this coming Sunday, can be used as a good practice session for the NAQP!

10134. Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-11 07:54:17 UTC
From: Yannick
Topic: 10082 Message: 10134

Etienne,

A bit late but I found a message by WA2DFI giving his early MTR build measurements :
40M: 9V@440mA = 4W out
40M: 12V@560mA = 6W out
20M: 9V@440mA = 4W out
20M: 12V@630mA = 6W out

http://groups.yahoo.com/group/AT_Sprint/message/8765

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/

--- In AT_Sprint@yahoogroups.com, "Etienne Scott" <climb2ski97215@...> wrote:
>
> Yan -
> Thanks for the data point - - that suggests an overall efficiency of 75% - - an amazing rig!
> I'm interested in seeing a few more current measurements if anyone has one.
> 72s,
> Etienne, K7ATN
>
> --- In AT_Sprint@yahoogroups.com, "Yannick (XV4Y)" <yannick.devos@> wrote:
> >
> > Hi Etienne,
> >
> > Mine is using 350mA for around 3W out on 30m with 11,4V in.
> >
> > Yan.
> > ---
> > Yannick DEVOS - XV4Y
> > New online shop for kits and more
> > http://xv4y.radioclub.asia/boutique/
> >
> >
> >
> > Le 29 nov. 2012 à 09:14, Etienne Scott a écrit :
> >
> > > Has anyone measured the current draw of their MTR during transmit?
> > >
> > > I was curious what the maximum transmit current consumption would be at 9V, 10V and 12V.
> > >

> > > Thanks!
> > >
> > > Etienne, K7ATN
> > >
> > >
> > >
> > > ---
> > >
> > > Yahoo! Groups Links
> > >
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>

10135. Re: MTR Maximum Voltage?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-11 15:20:32 UTC
From: ve3wmb
Topic: 10130 Message: 10135

Etienne :

I built a "poor man's voltage regulator" into a small plastic box that also includes a fuse. I just connect this between the AA battery pack and the my ATS-3 rig using molex connectors. What it consists of are a couple of silicon diodes in series. Each diode will drop
about 0.6 to 0.7 V. I have a SPST switch across one of the diodes so that I can short it out (effectively bypassing it) once the battery has been used for a bit and the voltage has dropped. This allows me to maintain a voltage of < 12V with minimal fuss and provides a convenient point to fuse the leads from the battery. I check the battery voltage before going out to operate so I know whether I need one or both diodes in line.

I also make use of 10V AA NiMH packs designed for R/C models. These can sometimes be found on sale at Radio Shack along with a charger. Fully charged they are probably closer to about 11 V so they make a good pack for ATS-series and MTRs. I cut the original leads and install pico fuses. I then cover the fuses/leads with heat-shrink tubing and tape them against the side of the pack for mechanical stability. Another option would be to use AA NiMH cells in your 8 cell holder.

A couple of additional points regarding NiMH; they don't like to be cold and they have a fairly high self-discharge rate so it is best to charge them the night before a planned outing.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "Etienne Scott" <climb2ski97215@...> wrote:
>
> All (but especially Steve W.) -
>
> I see in the MTR Manual that the maximum voltage specification for the MTR is 12.0 volts. And I've read several places that that maximum should not be exceeded. I thus read the "point zero" very literally.
>
> HOWEVER, I just realized that AA alkaline cells are nominal 1.5 volts but when brand new are more like 1.6 volts. Using eight fresh cells would provide 12.8 volts, unloaded. And the receive load for the MTR is tiny and would do little to reduce that voltage.
>
> QUESTION: Is it safe to operate an MTR radio with eight NEW AA alkaline cells at ~12.8 volts??
>
> Thanks,
> Etienne, K7ATN
>

10138. Re: [AT_Sprint] QST QST QST Second plug - Team members needed for NAQP (CW)Jan 12, 2013

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-11 18:12:48 UTC
From: Lee Hiers
Topic: 10133 Message: 10138

On Tue, Dec 11, 2012 at 11:38 AM, John Taylor <k0qh@...> wrote:

Sounds like fun. Don't have a AT Sprint but would like to join a Ten Tec
> R?? team or a FT-817 team since we are naming rigs.
>

I enjoyed my AT-Sprint NAQP team experience, but this time around I'm not planning on using the AT rig, but my new KX3...I don't think we're *necessarily* looking at rig-specific teams, although that is a possibility. I think the main thrust is QRP teams.

Correct me if I'm wrong Hank...

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10139. RE: [AT_Sprint] QST QST QST Second plug - Team members needed for NAQP (CW)Jan 12, 2013

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-11 18:32:15 UTC
From: John Aeiker
Topic: 10133 Message: 10139

Hank-
Count me in. The NAQPs are a blast. I typically work both the CW & RTTY ones as QRP but, missed the August NAQP due to other commitments. I will use my trusty ATS3 unless I get the time to build the ATS4b before then. Other projects in the queue though...

73/72, John
WA8HSB

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Hank Greeb
Sent: Monday, December 10, 2012 11:20 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] QST QST QST Second plug - Team members needed for NAQP (CW)Jan 12, 2013

The first solicitation back in September netted the following potential volunteers - WC7S, K8CV, N6GA, AA4GA, N1OA, and me.

We could use up to an infinite number of suckers... errr, volunteers to partake in informal "teams". To refresh your memories:

The North American QSO Party (NAQP) CW version will be held next year, Saturday, January 12, starting at 1800Z and ending Sunday, January 13, 0600Z. Six of us had a ball during the August 2012 event, yes, we REALLY did have fun. See our article about this at the web site: http://w8dc.org/grr_images/Greeb2.pdf

So much fun that I'd like to expand even more to any sucker... errr...., volunteer who would like to join a team (or teams) for the upcoming January 2013 CW NAQP. The only requirement is that you'd agree to run QRP with whatever kind of rig you prefer to use. We already have enough for one team of 5, but there's no limit to the number of teams we can have. If we have 5 rigs of the same kind, I'd make a team of those folks. If we have more than 5 rigs of the same kind, there'd be 2 (or more) teams. We can mix types of rigs for "full"
teams of 5 each - it really doesn't matter.

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It's the power level, not the rig type, which is important.

So, if you think you might be available for part or all of the period of 1800Z, 01/12/13 to 0600Z 01/13/13 please let me know. You needn't commit completely, but I'd like to add to the list of folks who "probably" could join such an endeavor. Part timers and operators of any ability level are cordially invited. We had one op who make >250 Q's, and one who made 4 Q's (because of family duties which got it the way of participation).

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Please advise by private e-mail. I'll put you on the list, and remind you early in 2013 to confirm your availability.

72/73 de n8xx Hg

p.s. Note - the upcoming QRP ARCI Holiday Homebrew Sprint, this coming Sunday, can be used as a good practice session for the NAQP!

Yahoo! Groups Links

10142. Re: [AT_Sprint] QST QST QST Second plug - Team members needed for NAQP (CW)Jan 12, 2013

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-11 19:06:21 UTC
From: Hank Greeb
Topic: 10133 Message: 10142

We ain't being specific on the rigs, anyone with a rig and who sez he/she will operate QRP is welcome. If we have 5 similar rigs, we can name the team as "FT-817'ers" or "Elecraft Team" or "Ten-Teckkies" or "Homebrew QRPers" etc. I'm sure we won't win in the team "competition" but we might as well show that QRP can do a credible job.

Check out the August preliminary results at:
http://ncjweb.com/naqpcwprelim.php

Note the top 5 QRP ops had between 350 and 450 Q's in the 8 hour contest. None of us "AT-Sprinters" did that well, but we weren't in the contest for "blood and guts."

Let me know the rig you decide to use, so I can sign you up for the appropriate team.

72/73 de n8xx Hg
QRP >99.44% of the time

p.s. What happened to your AT-Sprint with the Cinnamon Lady on the cover?

On 12/11/2012 1:12 PM, Lee Hiers wrote:
>
>
> On Tue, Dec 11, 2012 at 11:38 AM, John Taylor <k0qh@...
> <mailto:k0qh@...>> wrote:
>
> Sounds like fun. Don't have a AT Sprint but would like to join a
> Ten Tec R?? team or a FT-817 team since we are naming rigs.
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> I enjoyed my AT-Sprint NAQP team experience, but this time around I'm
> not planning on using the AT rig, but my new KX3...I don't think we're
> *necessarily* looking at rig-specific teams, although that is a
> possibility. I think the main thrust is QRP teams.
>
> Correct me if I'm wrong Hank...
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com <http://www.aa4ga.com>
>
> Submit your totals to the unofficial QRP DXCC standings - go to
> _http://www.aa4ga.com/p/qrp-dxcc.html_ for more info!

10143. Re: [AT_Sprint] QST QST QST Second plug - Team members needed for NAQP (CW)Jan 12, 2013

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-11 19:14:13 UTC
From: Lee Hiers
Topic: 10133 Message: 10143

On Tue, Dec 11, 2012 at 2:06 PM, Hank Greeb <n8xx@...> wrote:

Note the top 5 QRP ops had between 350 and 450 Q's in the 8 hour contest.
> None of us "AT-Sprinters" did that well, but we weren't in the contest for
> "blood and guts."
>
I may be out for blood and guts this time - especially if I can find an
antenna farm to borrow!

> Let me know the rig you decide to use, so I can sign you up for the
> appropriate team.
>
If you do end up with branded teams, put me with the KX3ers.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10145. Re: [AT_Sprint] QST QST QST Second plug - Team members needed for NAQP (CW)Jan 12, 2013

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-11 20:08:54 UTC
From: TJ Campie
Topic: 10133 Message: 10145

Come on up to the N0MA Radio Farm, we'd be happy to have you!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Dec 11, 2012 at 1:14 PM, Lee Hiers <lee.hiers@...> wrote:

> **
>
>
> On Tue, Dec 11, 2012 at 2:06 PM, Hank Greeb <n8xx@...> wrote:
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>
>
>
>

10146. Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-11 22:06:23 UTC
From: Etienne Scott
Topic: 10082 Message: 10146

Yan -

Thanks for digging these numbers up.

However, I like the one data point you sent me earlier that had an efficiency of 75%. The numbers below range from 79% efficiency on up to 101%. I know that Weber designs great radios but I don't know that energy creation is one of the features.

Still, it gives me a good understanding of the current draw of the MTR and thus what battery life would be like.

Etienne.

--- In AT_Sprint@yahoogroups.com, "Yannick" <yannick.devos@...> wrote:
>
> Etienne,
>
> A bit late but I found a message by WA2DFI giving his early MTR build measurements :
> 40M: 9V@440mA = 4W out
> 40M: 12V@560mA = 6W out
> 20M: 9V@440mA = 4W out
> 20M: 12V@630mA = 6W out
>
> http://groups.yahoo.com/group/AT_Sprint/message/8765
>
> 73,
> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
>
> --- In AT_Sprint@yahoogroups.com, "Etienne Scott" <climb2ski97215@> wrote:
> >
> > Yan -
> > Thanks for the data point - - that suggests an overall efficiency of 75% - - an amazing rig!
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> > --- In AT_Sprint@yahoogroups.com, "Yannick (XV4Y)" <yannick.devos@> wrote:
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> > > Hi Etienne,
> > >
> > > Mine is using 350mA for around 3W out on 30m with 11,4V in.
> > >

> > > Yan.
> > > ---
> > > Yannick DEVOS - XV4Y
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> > >
> > > Le 29 nov. 2012 à 09:14, Etienne Scott a écrit :
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> > > > Has anyone measured the current draw of their MTR during transmit?
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> > > > > I was curious what the maximum transmit current consumption would be at 9V, 10V and 12V.
> > > > >
> > > > > Thanks!
> > > > >
> > > > > Etienne, K7ATN
> > > > >
> > > > >
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> > > > > Yahoo! Groups Links
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10147. RE: [AT_Sprint] Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-11 23:31:12 UTC
From: Dale Putnam
Topic: 10082 Message: 10147

Here are some additional numbers for you, the first set is with 9.6 the second with 12.5
The current measured is TOTAL current used.

40m 590ma 4.0w 725ma 6.5w -139dbm
<.12uv

20m 750ma 4.0w 910ma 6.0w -138dbm
<.12uv

40m
950ma 4.8w 1000ma 6w -139dbm

20m
990ma 4.9w 1200ma 5.5w -139dbm

40m
900ma 4.5w 1100ma 7w -139dbm

20m
1090ma 5.1w 1200ma
6w -139dbm

40m
600ma 4.0w 750ma 6.5w -140dbm

20m 600ma 4.0w 750ma 6.0w -140dbm

Have a nice day,

--... ...--
Dale - WC7S in Wy
To: AT_Sprint@yahoogroups.com
From: climb2ski97215@...
Date: Tue, 11 Dec 2012 22:06:23 +0000
Subject: [AT_Sprint] Re: MTR Transmit Current?

Yan -

Thanks for digging these numbers up.

However, I like the one data point you sent me earlier that had an efficiency of 75%. The numbers below range from 79% efficiency on up to 101%. I know that Weber designs great radios but I don't know that energy creation is one of the features.

Still, it gives me a good understanding of the current draw of the MTR and thus what battery life would be like.

Etienne.

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> Etienne,

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> A bit late but I found a message by WA2DFI giving his early MTR build measurements :

> 40M: 9V@440mA = 4W out

> 40M: 12V@560mA = 6W out

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>

> http://groups.yahoo.com/group/AT_Sprint/message/8765

>

> 73,

> Yan.

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> >

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> > > Mine is using 350mA for around 3W out on 30m with 11,4V in.

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> > > >

> > > > Thanks!

> > > >

> > > > Etienne, K7ATN

> > > >

> > > >

> > > >

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> > > >

> > > > Yahoo! Groups Links

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10148. Re: [AT_Sprint] Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-12 01:03:09 UTC
From: Scott Cowling
Topic: 10082 Message: 10148

Hi Etienne,

After I re-read my prior measurements that Yan reposted, I agree with you. The transmitter efficiency cannot really be approaching (or more than) 100%. So I took new measurements using a wattmeter with more resolution (and hopefully more accuracy). I used a Keithley DMM and a NorCal QRP wattmeter to measure the following on my MTR 20/40 s/n 004:

40M: 8.0V@483mA = 2.3W (60% efficiency)
40M: 10.0V@585mA = 3.6W (62% efficiency)
40M: 12.0V@683mA = 5.1W (62% efficiency)

20M: 8.0V@520mA = 2.8W (67% efficiency)
20M: 10.0V@653mA = 4.0W (61% efficiency)
20M: 12.0V@774mA = 5.5W (59% efficiency)

These look more reasonable. Interesting that I get better power out on 20M. Hmmm....

I can also measure at 9V if anyone is interested in that data point.

73,
Scotty WA2DFI

At 22:06 2012-12-11 +0000, you wrote:
>
>
>Yan -
>
>Thanks for digging these numbers up.
>
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>to 101%. I know that Weber designs great radios but I don't know
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> >
> >
> <http://groups.yahoo.com/group/AT_Sprint/message/8765>http://groups.yahoo.com/group/AT_S
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> >
> > 73,
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> > > > Mine is using 350mA for around 3W out on 30m with 11,4V in.
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> > > > Yan.
> > > > ---

10149. RE: [AT_Sprint] Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-12 01:41:48 UTC
From: Mike Olbrisch
Topic: 10082 Message: 10149

Of more interest might be 11.0 v, as many of the 3-cell Li-based batteries run about 11.1v

Maybe run 9 and 11, then have the whole thing bracketed and done. Until someone asks for 12v <grin>. And don't be surprised if someone suggests 14v (13.8v gel-cell).

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Scott Cowling
Sent: Tuesday, December 11, 2012 18:03
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: MTR Transmit Current?

Hi Etienne,

After I re-read my prior measurements that Yan reposted, I agree with you. The transmitter efficiency cannot really be approaching (or more than) 100%. So I took new measurements using a wattmeter with more resolution (and hopefully more accuracy). I used a Keithley DMM and a NorCal QRP wattmeter to measure the following on my MTR 20/40 s/n 004:

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Scotty WA2DFI

At 22:06 2012-12-11 +0000, you wrote:
>
>
>Yan -
>
>Thanks for digging these numbers up.
>
>However, I like the one data point you sent me earlier that had an

>efficiency of 75%. The numbers below range from 79% efficiency on up
>to 101%. I know that Weber designs great radios but I don't know
>that energy creation is one of the features.
>
>Still, it gives me a good understanding of the current draw of the
>MTR and thus what battery life would be like.
>
>Etienne.
>
>--- In
><mailto:AT_Sprint%40yahoogroups.com>AT_Sprint@yahoogroups.com,
>"Yannick" <yannick.devos@...> wrote:
> >
> > Etienne,
> >
> > A bit late but I found a message by WA2DFI giving his early MTR
> build measurements :
> > 40M: 9V@440mA = 4W out
> > 40M: 12V@560mA = 6W out
> > 20M: 9V@440mA = 4W out
> > 20M: 12V@630mA = 6W out
> >
> >
>
<http://groups.yahoo.com/group/AT_Sprint/message/8765>http://groups.yahoo.co
m/group/AT_Sprint/message/8765
> >
> > 73,
> > Yan.
> > ---
> > Yannick DEVOS - XV4Y
> > <http://xv4y.radioclub.asia/>http://xv4y.radioclub.asia/
> >
> > --- In
> <mailto:AT_Sprint%40yahoogroups.com>AT_Sprint@yahoogroups.com,
> "Etienne Scott" <climb2ski97215@> wrote:
> > >
> > > Yan -
> > > Thanks for the data point - - that suggests an overall
> efficiency of 75% - - an amazing rig!
> > > I'm interested in seeing a few more current measurements if
> anyone has one.
> > > 72s,
> > > Etienne, K7ATN
> > >
> > > --- In
> <mailto:AT_Sprint%40yahoogroups.com>AT_Sprint@yahoogroups.com,
> "Yannick (XV4Y)" <yannick.devos@> wrote:
> > > >
> > > > Hi Etienne,

> > > >
> > > > Mine is using 350mA for around 3W out on 30m with 11,4V in.
> > > >
> > > > Yan.
> > > > ---

Yahoo! Groups Links

10150. ats-4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-12 08:11:27 UTC
From: rustytrap2003
Topic: 6559 Message: 10150

lost my menu holding down the toggle will shut it off. but no mem,tune, ect. any one else had this happen ?

10151. Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-12 12:15:32 UTC
From: bill_w4zv
Topic: 10082 Message: 10151

I had a detailed response written for this and then lost it due to an Internet glitch! Just a word of caution here. Although 3-cell LiPOs are rated at 11.1V, that is the MINIMUM voltage they should ever be discharged to (i.e. 3.7V per cell). Discharging lower will KILL them. They're typically charged to 4.2V per cell so a 3-cell will be 12.6V at maximum charge, which is a little high for ATS rigs. You have several options:

1. Use only a Tayloe bridge tuner to ensure low SWR. (Emtech ZM-2, Hendricks SOTA Tuner, etc). I've never had any problems running 12.6V with my ATS-3 into properly matched loads. A separate 9V battery can also be as a "tune-up" power source if you don't have a Tayloe bridge.

2. Charge LiPOs initially to only 12V. This is easy since you MUST use a smart balancing charger for LiPOs. You aren't giving away much capacity since the discharge curve is very rapid from 12.6 to 12.0 (black line below):

http://www.maximintegrated.com/images/appnotes/3958/3958Fig05.gif

3. As Fred KT5X does, add a switchable diode to drop the voltage for the first few QSOs and monitor the voltage using #6 below to switch it out when the voltage drops to 12.0.

LiPOs offer the best energy/weight ratio for portable operating but you MUST carefully follow the rules for charging, discharging, storage, etc. Here's a primer for anyone considering LiPOs. Knowledge is an absolute MUST for properly using LiPOs:

http://www.rchelicopterfun.com/rc-lipo-batteries.html

I bought my setup from Chinese suppliers on eBay. Here's a basic collection of what you'll need:

1. Fireproof charge bag - $4.68. (Not absolutely necessary IMHO but a good idea if you do indoor or unattended charging.)

2. 11.1v 1200mah 20C BQY lipo battery - $11.98 (I bought two).

3. JST connector plug RC BEC lipo - $0.99 (connector for most smaller capacity LiPOs and you'll add #5 below to connect to your ATS).

4. Imax B6 2-6 cells Lipo NiMh Digital Balance Battery Charger - $20.98 (Absolute MUST for balanced charging of LiPOs)

5. New 2.5mm x 0.7mm DC Power cable Male Plug Connector - $0.99 (for ATS power input)

6. 2-6 cells LED 2S-6S Checker Tester - $2.95 (monitors each cell and total voltage so you don't discharge too far which will KILL your battery)

Total system cost is about $50 for one 1200 mAh battery or $60 for two.

IMHO LiPOs work very well for ATS rigs but you must know what you're doing. Read and RE-READ the link above before you start using these batteries!

73, Bill

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> Of more interest might be 11.0 v, as many of the 3-cell Li-based batteries
> run about 11.1v
>
> Maybe run 9 and 11, then have the whole thing bracketed and done. Until
> someone asks for 12v <grin>. And don't be surprised if someone suggests 14v
> (13.8v gel-cell).
>
> Mike - KD9KC.
>
> -----Original Message-----
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of Scott Cowling
> Sent: Tuesday, December 11, 2012 18:03
> To: AT_Sprint@yahoogroups.com
> Subject: Re: [AT_Sprint] Re: MTR Transmit Current?
>
> Hi Etienne,
>
> After I re-read my prior measurements that Yan reposted, I agree with
> you. The transmitter efficiency cannot really be approaching (or more
> than) 100%. So I took new measurements using a wattmeter with more
> resolution (and hopefully more accuracy). I used a Keithley DMM and a
> NorCal QRP wattmeter to measure the following on my MTR 20/40 s/n 004:
>
> 40M: 8.0V@483mA = 2.3W (60% efficiency)
> 40M: 10.0V@585mA = 3.6W (62% efficiency)
> 40M: 12.0V@683mA = 5.1W (62% efficiency)
>
> 20M: 8.0V@520mA = 2.8W (67% efficiency)
> 20M: 10.0V@653mA = 4.0W (61% efficiency)
> 20M: 12.0V@774mA = 5.5W (59% efficiency)
>
> These look more reasonable. Interesting that I get better power out
> on 20M. Hmmm....
>
> I can also measure at 9V if anyone is interested in that data point.
>
> 73,
> Scotty WA2DFI
>
>
> At 22:06 2012-12-11 +0000, you wrote:
> >
> >
> >Yan -
> >
> >Thanks for digging these numbers up.

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> >However, I like the one data point you sent me earlier that had an
> >efficiency of 75%. The numbers below range from 79% efficiency on up
> >to 101%. I know that Weber designs great radios but I don't know
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> ><mailto:AT_Sprint%40yahoogroups.com>AT_Sprint@yahoogroups.com,
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> > > A bit late but I found a message by WA2DFI giving his early MTR
> > build measurements :
> > > 40M: 9V@440mA = 4W out
> > > 40M: 12V@560mA = 6W out
> > > 20M: 9V@440mA = 4W out
> > > 20M: 12V@630mA = 6W out
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> > >
> >
> <http://groups.yahoo.com/group/AT_Sprint/message/8765>http://groups.yahoo.co
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> > > 73,
> > > Yan.
> > > ---
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> > > <http://xv4y.radioclub.asia/>http://xv4y.radioclub.asia/
> > >
> > > --- In
> > <mailto:AT_Sprint%40yahoogroups.com>AT_Sprint@yahoogroups.com,
> > "Etienne Scott" <climb2ski97215@> wrote:
> > > >
> > > > Yan -
> > > > Thanks for the data point - - that suggests an overall
> > efficiency of 75% - - an amazing rig!
> > > > I'm interested in seeing a few more current measurements if
> > anyone has one.
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> > <mailto:AT_Sprint%40yahoogroups.com>AT_Sprint@yahoogroups.com,
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> > > > > Hi Etienne,
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> > > > > Mine is using 350mA for around 3W out on 30m with 11,4V in.
> > > > >
> > > > > Yan.
> > > > > ---
>
>
>
>
> ---
>
> Yahoo! Groups Links
>

10152. Wed Nite Nets

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-12 13:58:14 UTC
From: WA0ITP
Topic: 10080 Message: 10152

The Four State QRP Comfortable nets meet each Wednesday night beginning at 7:00 PM CST, 0100z. If we have to QSY, I like to move up, Wayne likes to move down. and Dick doesnt have to move much at all. Add anything to the exchange that you wish, temp rig, ant, etc.

7:00 CST 0100z ... 80M CW Net on 3564, WA?ITP NCS.
7:30 CST 0130z ... 40M CW Net on 7122, KC?PMH NCS
8:00 CST 0200z ... 80M CW Net on 3564, WA?ITP NCS.
8:30 CST 0230z ... 40M CW Net on 7122, KC?PMH NCS
9:00 CST 0300z ... 80M PSK Net on 3580.5, N?TGR NCS

All are welcome

I love this radio stuff !
72 WA?ITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

10153. MTR Transmit/Receive Current Table

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-12 18:42:10 UTC
From: Scott Cowling
Topic: 10153 Message: 10153

Hi all,

Here is my updated table that includes all of the measurements on my MTR 20/40 s/n 004. I used a Keithley DMM and a NorCal QRP wattmeter.

RX current, all voltages: 32mA

Total current during TX:

40M: 8.0V@483mA = 2.3W (60% efficiency)
40M: 9.0V@538mA = 3.0W (63% efficiency)
40M: 10.0V@585mA = 3.6W (62% efficiency)
40M: 11.0V@639mA = 4.5W (64% efficiency)
40M: 12.0V@683mA = 5.1W (62% efficiency)

20M: 8.0V@520mA = 2.8W (67% efficiency)
20M: 9.0V@520mA = 3.1W (64% efficiency)
20M: 10.0V@653mA = 4.0W (61% efficiency)
20M: 11.0V@742mA = 4.8W (59% efficiency)
20M: 12.0V@774mA = 5.5W (59% efficiency)

I suspect that the non-monotonic changes in efficiency on 40M are due to the 100mW resolution of my wattmeter.

Yes, the TX current is the same on 20M at both 8.0V and 9.0V; I measured it twice, since it looked odd.

73,
Scotty WA2DFI

10154. RE: [AT_Sprint] MTR Transmit/Receive Current Table

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-12 19:01:23 UTC
From: Mike Olbrisch
Topic: 10153 Message: 10154

Thank you - thank you....

I look forward to someday comparing that list with my as-yet unused ATS-4B.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of Scott Cowling
Sent: Wednesday, December 12, 2012 11:42
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] MTR Transmit/Receive Current Table

Hi all,

Here is my updated table that includes all of the measurements on my
MTR 20/40 s/n 004. I used a Keithley DMM and a NorCal QRP wattmeter.

RX current, all voltages: 32mA

10155. Re: [AT_Sprint] ats-4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-12 22:49:24 UTC
From: Steven Weber
Topic: 6559 Message: 10155

> lost my menu holding down the toggle will shut it off. but no mem,tune,
> ect. any one else had this happen ?
>

That happens when the rig is in Straight key mode, as all those options only work with a paddle. If your stuck in that mode, (nothing in the jack) it usually means that the Dash input port got damaged somehow and the processor needs to be replaced, although there is the slim chance the pull up resistor for that port isn't making contact anymore, maybe one end didn't get soldered.

Steve KD1JV

10156. Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-13 12:44:46 UTC
From: frandyjohnson
Topic: 10082 Message: 10156

I think you are being overly cautious if you only discharge a 3-cell LiPo to 3.7V. At that point the battery is charged to about 80% capacity. 3.2-3.4V is a reasonable low limit. The "MINIMUM" is probably 3.0V or even lower. IMHO. - N1FJ

References: http://www.rchelicopterfun.com/rc-lipo-batteries.html
http://www.all-battery.com/lipobatterypowertesterandalarmlowpower.aspx
http://www.rcgroups.com/forums/showthread.php?t=209187
http://en.wikipedia.org/wiki/Lithium_polymer_battery

--- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@...> wrote:
>
> I had a detailed response written for this and then lost it due to an Internet glitch! Just a word of caution here. Although 3-cell LiPOs are rated at 11.1V, that is the MINIMUM voltage they should ever be discharged to (i.e. 3.7V per cell). Discharging lower will KILL them. They're typically charged to 4.2V per cell so a 3-cell will be 12.6V at maximum charge, which is a little high for ATS rigs. You have several options:
>

10157. Re: [AT_Sprint] Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-13 15:02:35 UTC
From: Rich
Topic: 10082 Message: 10157

I'm no expert in this, in the first reference below I'm seeing conflict between advice:
http://www.rchelicopterfun.com/rc-lipo-batteries.html

"I am often guilty of going past that 80% (3.75V per cell) number down to 90% (about 3.7 volts per cell) while flying, and on most decent quality packs if they are not being worked that hard - this is usually ok - at least in my experiences."

This reference seems to suggest that 90% discharge is recognized when the battery cells are down to 3.7V.

http://www.rcgroups.com/forums/showthread.php?t=209187

LiPolys act differently than NiCad or NiMH batteries do when charging and discharging. Lithium batteries are fully charged when each cell has a voltage of 4.2 volts. They are fully discharged when each cell has a voltage of 3.0 volts. It is important not to exceed both the high voltage of 4.2 volts and the low voltage of 3.0 volts. Exceeding these limits can harm the battery.

This reference suggests that discharge to a value above 3.0V is acceptable, and that damage starts at 3.0V.

http://en.wikipedia.org/wiki/Lithium_polymer_battery

During discharge on load, the load has to be removed as soon as the voltage drops below approximately 3.0 V[citation needed] per cell (used in a series combination), or else the battery[citation needed]will subsequently no longer accept a full charge and may experience problems holding voltage under load. Li-poly batteries can be protected by circuitry that prevents over-charge and deep-discharge.

Wikipedia and rcgroups seem to agree. Discharge at or below 3.0 is likely to cause damage.

Am I missing something? What is the first reference based on and why the difference?

Rich NU6T

On 12/13/2012 4:44 AM, frandyjohnson wrote:
>
> I think you are being overly cautious if you only discharge a 3-cell
> LiPo to 3.7V. At that point the battery is charged to about 80%
> capacity. 3.2-3.4V is a reasonable low limit. The "MINIMUM" is
> probably 3.0V or even lower. IMHO. - N1FJ
>
> References: http://www.rchelicopterfun.com/rc-lipo-batteries.html
> http://www.all-battery.com/lipobatterypowertesterandalarmlowpower.aspx
> http://www.rcgroups.com/forums/showthread.php?t=209187
> http://en.wikipedia.org/wiki/Lithium_polymer_battery
>
> ---
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>,
> "bill_w4zv" <btippett@...> wrote:
> >
> > I had a detailed response written for this and then lost it due to
> an Internet glitch! Just a word of caution here. Although 3-cell LiPOs
> are rated at 11.1V, that is the MINIMUM voltage they should ever be
> discharged to (i.e. 3.7V per cell). Discharging lower will KILL them.
> They're typically charged to 4.2V per cell so a 3-cell will be 12.6V
> at maximum charge, which is a little high for ATS rigs. You have
> several options:
> >
>
>

10158. Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-13 15:47:36 UTC
From: zigmundrat
Topic: 10082 Message: 10158

The first reference (discharge limit of 3.7 or 3.875 v/cell) is pretty much untrue - it's incredibly conservative. The others stating a max of 4.2 and a min of 3.0 are correct. Beyond those limits and you are looking at damaging the batteries. In fact, most chargers will refuse to start charging a LiPo cell if it's below 3.0v. In RC aircraft, we usually set the low voltage cutoff to a value somewhat above 3.0 - say, 3.3 or 3.4 but the exact value is a bit arbitrary. The reason is that we need to have reserves and the ability to control and land the aircraft safely. And there's no reason to abuse the batteries.

For use with MTR, charging a 3S LiPo with a 'storage' charge would probably be safest. This brings each cell to about 3.8v (can vary a bit). This will still run an MTR for a long time. You could also consider LiFe batteries - these provide a nominal 3.3v/cell, have a very flat discharge curve, and can discharge to 2.0v although they are mostly depleted at 2.5v. I'm not sure how well these radios behave at those voltage levels though (think of the low end at 7.5v).

Also note that Li-ion and Li-poly are different, and different rules apply, so be careful about confusing the two.

Paul - K9MR

--- In AT_Sprint@yahoogroups.com, Rich <rehill@...> wrote:
>
> I'm no expert in this, in the first reference below I'm seeing conflict
> between advice:
> http://www.rchelicopterfun.com/rc-lipo-batteries.html
>
> "I am often guilty of going past that 80%
> (3.75V per cell) number down to 90% (about
> 3.7 volts per cell) while flying, and on
> most decent quality packs if they are not
> being worked that hard - this is usually ok
> - at least in my experiences."
>
> This reference seems to suggest that 90% discharge is recognized when the battery cells are down to 3.7V.
>
> http://www.rcgroups.com/forums/showthread.php?t=209187
>
> LiPolys act differently than NiCad or NiMH batteries do when charging and discharging. Lithium batteries are fully charged when each cell has a voltage of 4.2 volts. They are fully discharged when each cell has a voltage of 3.0 volts. It is important not to exceed both the high voltage of 4.2 volts and the low voltage of 3.0 volts. Exceeding these limits can harm the battery.
>
> This reference suggests that discharge to a value above 3.0V is
> acceptable, and that damage starts at 3.0V.

>
> http://en.wikipedia.org/wiki/Lithium_polymer_battery
>
> During discharge on load, the load
> has to be removed as soon as the
> voltage drops below approximately
> 3.0 V[citation needed] per cell
> (used in a series combination), or
> else the battery[citation
> needed]will subsequently no longer
> accept a full charge and may
> experience problems holding voltage
> under load. Li-poly batteries can be
> protected by circuitry that prevents
> over-charge and deep-discharge.
>
>
> Wikipedia and rcgroups seem to agree. Discharge at or below 3.0 is
> likely to cause damage.
>
> Am I missing something? What is the first reference based on and why the
> difference?
>
> Rich NU6T
>

10159. [AT_Sprint] MTR Transmit Current? (really, LiPO batteries)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-13 15:55:01 UTC
From: cloud runner
Topic: 10159 Message: 10159

You have it right.

Critical voltage in a LiPO is 3.0 volts. In a 3S configuration, that equates to 9 volts.

Note that the flat voltage zone is from about 3.7 volts to about 3.3 volts per cell. Just like there is little current stored in voltages higher than this flat zone, there is little current stored below it. In other words, if a 3S LiPO gets below 10 volts, its voltage will drop-like-a-stone.

Don't go there!

All of that said, while using an ATS radio which draws only about 40 mA in rcv, a typical 30 QSO SOTA activation consumes between 250 and 300 mAH. this is enabling me to use a battery that weighs two ounces!

Thanks to these wonderful little radios, my entire set up including antenna wire supporting pole now weighs under a pound and a half. If I can use trees entirely, and leave the pole at home, under one pound!

73 Fred - kt5x

aka WS0TA

10160. RE: [AT_Sprint] Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-13 16:23:59 UTC
From: Mike Olbrisch
Topic: 10082 Message: 10160

I agree Frandy. I have been told that draining them below 3.0 is the beginning of the danger zone.

One of the other questions I asked was what about dips below 3.0v/cell under quick loads. What I was told was that the battery should not be drained below 3.0v for a steady unloaded state. Quick dips below that happen all the time on model aircraft, and while certainly were not the best way to treat the battery, as long as the voltage was above 3.0v/cell unloaded, it isn't likely anything was severely damaged.

I asked that because my FT-817 could pull that to about 2.4v under a 5-watt load before shutting the radio off. What I have not yet determined is what the unloaded voltage would be after my FT-817 shut down under load from a weak battery.

I have two 3600mah Li-Po batteries that fit inside the FT-817. They last so long I have yet to run one low enough to see where they run out at under 5-watt (about 2000 mah load).

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of frandyjohnson
Sent: Thursday, December 13, 2012 05:45
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: MTR Transmit Current?

I think you are being overly cautious if you only discharge a 3-cell LiPo to 3.7V. At that point the battery is charged to about 80% capacity. 3.2-3.4V is a reasonable low limit. The "MINIMUM" is probably 3.0V or even lower. IMHO. - N1FJ

References: http://www.rchelicopterfun.com/rc-lipo-batteries.html
http://www.all-battery.com/lipobatterypowertesterandalarmlowpower.aspx
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--- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@...> wrote:
>
> I had a detailed response written for this and then lost it due to an Internet glitch! Just a word of caution here. Although 3-cell LiPOs are

rated at 11.1V, that is the MINIMUM voltage they should ever be discharged to (i.e. 3.7V per cell). Discharging lower will KILL them. They're typically charged to 4.2V per cell so a 3-cell will be 12.6V at maximum charge, which is a little high for ATS rigs. You have several options:
>

10161. ATS-3A or ATS-3B WANTED

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-14 01:28:52 UTC
From: wa2ohf
Topic: 10161 Message: 10161

Wanted Wanted Wanted
ATS-3A OR ATS-3B un-built , built partially built , working , not working I don't care I want one
Please contact me with price .
off line and I will PayPal you the money @ arthurripple@gmail.com or 612-250-3536
Thanks in advanced
NS7E Arthur

10162. Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-14 01:59:22 UTC
From: bill_w4zv
Topic: 10082 Message: 10162

You're correct...3.0V is the "discharge voltage cutoff level" according to my charger manual. I believe about 3.3 or 3.4 is the 50% capacity level which is recommended for storage (at refrigerator temps...not the freezer). I select STORAGE and the charger discharges to whatever level that is and put them in a baggie in the fridge.

73, Bill

--- In AT_Sprint@yahoogroups.com, "frandyjohnson" <frandyj@...> wrote:
>
> I think you are being overly cautious if you only discharge a 3-cell LiPo to 3.7V. At that point the battery is charged to about 80% capacity. 3.2-3.4V is a reasonable low limit. The "MINIMUM" is probably 3.0V or even lower. IMHO. - N1FJ
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> References: http://www.rchelicopterfun.com/rc-lipo-batteries.html
> http://www.all-battery.com/lipobatterypowertesterandalarmlowpower.aspx
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> --- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@> wrote:
> >
> > I had a detailed response written for this and then lost it due to an Internet glitch! Just a word of caution here. Although 3-cell LiPOs are rated at 11.1V, that is the MINIMUM voltage they should ever be discharged to (i.e. 3.7V per cell). Discharging lower will KILL them. They're typically charged to 4.2V per cell so a 3-cell will be 12.6V at maximum charge, which is a little high for ATS rigs. You have several options:
> >
>

10163. Re: [AT_Sprint] Re: MTR Transmit Current?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-14 05:27:27 UTC
From: Steven Weber
Topic: 10082 Message: 10163

I'm not sure how well these radios behave at those voltage levels though
(think of the low end at 7.5v).
>

The rig will work just fine until the 5V regulator goes out of regulation,
which will happen at about 5.5 volts. Power out will be a bit low, 500 mw or
so, but still useable.

Steve KD1JV

10164. Re: MTR Transmit/Receive Current Table

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-15 04:04:51 UTC
From: radio_kx0r
Topic: 10153 Message: 10164

Scotty -

Your numbers are believable and pretty close to what I'm seeing here. I spent the morning doing tests on my new MTR, and you and I are seeing about the same efficiency.

I set my radio up for 20M and 30M. I was able to adjust the toroids so that I see these numbers:

30M 6.0V .35A 1.2W out 57% eff
30M 9.1V .50A 2.9W out 64% eff
30M 12.0V .65A 5.0W out 64% eff

20M 6.0V .37A 1.2W out 54% eff
20M 9.1V .53A 3.0W out 62% eff
20M 12.0V .68A 5.1W out 52% eff

No complaints here !! The efficiency is the whole radio overall, so the efficiency of the final stage is significantly higher.

The voltages and currents are measured with a Fluke 77 and the MTR itself. The voltages are measured in receive mode, so they are sagging a tenth or two when the rig is keyed - I'm using a regulated supply on the bench, but the leads are a couple of feet long. So the actual efficiency would measure better if we checked the voltage right at the pcb when the rig is keyed. The RF power meter is a WM-2 which has been checked carefully against a Norcal SMT dummy load with its schottky detector.

Some of the other measurements posted here look like some people need to check or calibrate their instruments. The rig current had better not be even close to 1A! Nor should the efficiency be impossibly great!

When I first tried adjusting the transmitter toroids, I found that I had lower output on 30M than on 20M. After some adjusting, I decided to increase the turns on L13. In the manual it looks like the 14 turns recommended for L13 isn't proportional like the other toroids are for 40M and 20M.

I increased L13 from 14T to 17T, and I had over 6 watts at 12V instantly. Woah! I cut it back to 16T, and after adjusting L12 and L13, I was able to get 5.0W at 12.0V with good efficiency.

But today I made a serious discovery: I checked the drain waveforms on the final mosfets to see what the peak voltages were. On 20M the peaks are hitting about +39V with 12.0V in and 5.1W out. That seems OK, as it provides some margin in case the SWR isn't perfect. We don't want those RF peaks to approach the 47V level, because zener diode D4 would start clipping and wasting power - or worse, overheat and short. On 30M with 12.0V and 5.1W out, with 16T on L13, I saw the peaks hitting +46V, so I adjusted the coils some more to try to get that down. In the end I reduced the turns on L13 to 15 turns, re-adjusted L13 and L12 back and forth, and ended up with the peak drain voltage at +39V on 30M, with the numbers above!

Success!

The 30M numbers above are with 15 turns on L13 and everything adjusted. I should mention that I increased the wire gage on all the toroids from #28 (supplied) to #26. Not sure this matters much.

So if your output on 30M is low, try adding a turn to L13. No more.

Because of what I saw with those high peaks on the drains of the finals, I would caution anyone planning to run their MTR at 12V to use a high-frequency scope to check the drain waves on both bands before assuming that everything is great, just because the power out and efficiency are nice. It may be that adjusting for efficiency or power out can push the drain voltage peaks up in some cases. I don't pretend to understand the complex relationship between the many variables in the transmitter output filter, but I do know that you don't want those drain peaks anywhere near 47V !! D4 is there for protection of the drains in case you forget to hook up the coax for a moment, or whatever, not for regular operation.

After I had everything adjusted, I checked the spectrum on my HP141T. The worst spurious emissions are the 2F harmonics. These are -50 dbc on 30M and -49 dbc on 20M, with both 9V and 12V. That's nice. 3F is a few db lower. All the higher harmonics to 100 MHz are further down.
There are some other products near or below the main frequency that are -50 dbc or better on 20M, and -55 dbc or better on 30M. No complaints here either!

Nice job Steve!!

The receiver is equally impressive. I can hear signals way below 0.1 uV on both bands, and on 20M I can just hear 30 nV. At 0.1 uV the signals would be Q5 if the noise level was as low as on the bench.

I still haven't put it on the air, but the receiver does what it should.

This was a fun day...

Sorry this is so long, but I told the whole tale so the ones of you who want to peak up your MTR can have a pretty good set of data to compare with. If you just buzzed through it the first time, you might want to take a second pass and adjust those toroids (compress or spread the turns to vary the inductance) while you measure all the numbers.

72
KX0R

--- In AT_Sprint@yahoogroups.com, Scott Cowling <scotty@...> wrote:
>
> Hi all,
>
> Here is my updated table that includes all of the measurements on my
> MTR 20/40 s/n 004. I used a Keithley DMM and a NorCal QRP wattmeter.
>
> RX current, all voltages: 32mA
>
> Total current during TX:
>

> 40M: 8.0V@483mA = 2.3W (60% efficiency)
> 40M: 9.0V@538mA = 3.0W (63% efficiency)
> 40M: 10.0V@585mA = 3.6W (62% efficiency)
> 40M: 11.0V@639mA = 4.5W (64% efficiency)
> 40M: 12.0V@683mA = 5.1W (62% efficiency)
>
> 20M: 8.0V@520mA = 2.8W (67% efficiency)
> 20M: 9.0V@520mA = 3.1W (64% efficiency)
> 20M: 10.0V@653mA = 4.0W (61% efficiency)
> 20M: 11.0V@742mA = 4.8W (59% efficiency)
> 20M: 12.0V@774mA = 5.5W (59% efficiency)
>
> I suspect that the non-monotonic changes in efficiency on 40M are due
> to the 100mW resolution of my wattmeter.
>
> Yes, the TX current is the same on 20M at both 8.0V and 9.0V; I
> measured it twice, since it looked odd.
>
> 73,
> Scotty WA2DFI
>

10165. 5 volt phone power packs for QRP transceiver use.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-17 20:19:42 UTC
From: jor
Topic: 10165 Message: 10165

Hi all,

There are many powerful Li-po battery packs available on the market for mobile phone backup purpose and affordable.
Bud most off them are 5 volt up to 3 Amp/h or more and have a regulator electronics inside for charging so the are safe to use. May be we have to design the QRP sets for 5 volt operation and built in a up converting switcher to power de PA with 9 or 12 volt during transmission period?
Any experience with this set up?

73' Joris PE1KTH

10166. Want to buy

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-17 20:27:55 UTC
From: Phil Townsend Lontz
Topic: 10165 Message: 10166

Hi all… I would like to find/ buy an ATS unbuilt…
If you have one I can pay via Paypal…
my contact is
Phil
505 466 7575
or philji@...
Let me know… thx 73 etc

Phil
If you don't know what it is... Don't poke it...
Santa Fe
K5SSR

10167. Re: [AT_Sprint] Want to buy

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-18 11:33:09 UTC
From: David Wilcox
Topic: 10165 Message: 10167

There is one on eBay

http://www.ebay.com/itm/230898766106?ssPageName=STRK:MEWAX:IT&_trksid=p3984.m1423.l2649

Dave K8WPE

From: Phil Townsend Lontz <philji@...>
To: AT_Sprint@yahoogroups.com
Sent: Monday, December 17, 2012 3:27 PM
Subject: [AT_Sprint] Want to buy

Hi all… I would like to find/ buy an ATS unbuilt…
If you have one I can pay via Paypal…
my contact is
Phil
505 466 7575
or philji@mac.com
Let me know… thx 73 etc

PhilIf you don't know what it is... Don't poke it...Santa FeK5SSR

10168. Wed Nite Nets

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-19 20:12:08 UTC
From: WA0ITP
Topic: 10080 Message: 10168

The Four State QRP Comfortable nets meet each Wednesday night
beginning at 7:00 PM CST, 0100z.

The 80M nets have had excellent participation and tonight I'm going to
try to move them along more quickly by taking a list after calling CQ.
I'll acknowledge you with your call and add the prosign AS. After the
list is taken, I'll come back to each of you for the exchange. When
the first list is run, we'll take another one. Thanks for trying this
out, it should be fun..

If we have to QSY, I like to move up, Wayne likes to move down,
and Dick doesn't have to move much at all.

Add anything to the exchange that you wish, temp rig, ant, etc.

7:00 CST 0100z ... 80M CW Net on 3564, WA?ITP NCS.
7:30 CST 0130z ... 40M CW Net on 7122, KC?PMH NCS
8:00 CST 0200z ... 80M CW Net on 3564, WA?ITP NCS.
8:30 CST 0230z ... 40M CW Net on 7122, KC?PMH NCS
9:00 CST 0300z ... 80M PSK Net on 3580.5, N?TGR NCS

All are welcome! After the nets, a list of checkins is posted on
Four State reflector. If you aren't already receiving postings,
go here to sign up. http://www.4sqrp.com/reflsub.php

I love this radio stuff !
72 WA?ITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

10169. MTR Troubleshooting

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-20 03:48:22 UTC
From: johnroland51
Topic: 10169 Message: 10169

I finally got around to assembling my MTR by hand soldering. I'm trying to troubleshoot some problems, there appear to be many, but I'm hoping maybe they are all related.
I'm getting continuity between the metal top of U11 and pin 2 which is grounded. While I can't really see a bridge between pin 2 and the case, Steve cautions to avoid solder bridges on U11 on page 6 of the manual. I'm wondering if the case might be internally connected to pin 2. Thought I'd check before ordering a new u11.
Thanks
John
W7SWB

10170. RE: [AT_Sprint] MTR Troubleshooting

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-20 03:56:39 UTC
From: Dale Putnam
Topic: 10169 Message: 10170

I don't think you have a problem with that.. I can measure one, if we need to.The concern with U11 is more that it is oriented correctly. The shorts on the regulated supplies 3.3 and 5.. are not a good thing.. they can be checked with an ohmmeterpreliminarily then with a voltmeter after power is applied. What seems to be the issues?

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: johnroland51@gmail.com
Date: Thu, 20 Dec 2012 03:48:22 +0000
Subject: [AT_Sprint] MTR Troubleshooting

I finally got around to assembling my MTR by hand soldering. I'm trying to troubleshoot some problems, there appear to be many, but I'm hoping maybe they are all related.

I'm getting continuity between the metal top of U11 and pin 2 which is grounded. While I can't really see a bridge between pin 2 and the case, Steve cautions to avoid solder bridges on U11 on page 6 of the manual. I'm wondering if the case might be internally connected to pin 2. Thought I'd check before ordering a new u11.

Thanks

John

W7SWB

10171. Re: MTR Troubleshooting

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-20 05:39:55 UTC
From: radio_kx0r
Topic: 10169 Message: 10171

John,

Short from pin 2 to metal top of U11 is OK. Top of Ull on my working MTR is connected to ground.

Suggest you visually inspect the whole rig, especially U6 and U10, using the following tools:

1) Bright light - spot lamp or other high-intensity source - up close to the board
2) Magnification - sufficient to judge whether the tiny joints are soldered, bridged, or open
3) Change the light and the direction you look, so you view at more than one angle - try to look under the leads and other parts - look for gaps.

Be sure to clean off all the flux per the instructions in the manual - otherwise the inspection is likely to be of little value. I found that gentle use of a short-bristle brush (so-called "acid brush", clipped down to about 1/4") with denatured alcohol, followed by Q-tips (cotton swabs) with a little more alcohol to soak up the residue, was effective.

If any of the tiny pins on the IC's are bent, they may look OK but may not actually be soldered to the pads.

Check to be sure that all IC's and other polarized parts are oriented per the charts in the manual.

Be sure to check the three supply voltages in the rig. The two regulators should be very close to their specs.

Whatever you do, don't do what I did:

I had the DC power connector, the headphone connector, and the paddles connector all connected by short leads to the PCB. I failed to insulate the solder pins on the power connector. While turning the board over to adjust trimmers, the power connector touched the paddles connector. This allowed 9V to connect to the paddle input of the micro processor. That destroyed part of the processor. Bad mistake.

Please insulate your connectors while doing tests and measurements. A piece of tape or sleeving will work.

Avoid slipping with meter or scope probes.

If you can't see and correct any problems, perhaps you should try measuring the voltages on various pins using the charts in the manual.

It is true that these radios usually work well, once all the solder connections are correct. Once you get your MTR going, your patience will be rewarded!

Good luck,

Carey
KX0R

--- In AT_Sprint@...m, "johnroland51" <johnroland51@...> wrote:
>
> I finally got around to assembling my MTR by hand soldering. I'm trying to troubleshoot some problems, there appear to be many, but I'm hoping maybe they are all related.
> I'm getting continuity between the metal top of U11 and pin 2 which is grounded. While I can't really see a bridge between pin 2 and the case, Steve cautions to avoid solder bridges on U11 on page 6 of the manual. I'm wondering if the case might be internally connected to pin 2. Thought I'd check before ordering a new u11.
> Thanks
> John
> W7SWB
>

10172. Re: [AT_Sprint] Re: MTR Troubleshooting

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-21 20:36:56 UTC
From: Kurt Savegnago
Topic: 10169 Message: 10172

One other thing I've found helpful is if you have a document scanner, scan a board and you'd be surprised as to resolution you can see on your computer monitor. With my old HP scanner it yields a very clear magnified image. It ends up 30 to 50mb using SANE in my linux box but is very clear.

Kurt KC9LDH

--- On Wed, 12/19/12, radio_kx0r <careyfuller@...> wrote:

> From: radio_kx0r <careyfuller@...>
> Subject: [AT_Sprint] Re: MTR Troubleshooting
> To: AT_Sprint@yahoogroups.com
> Date: Wednesday, December 19, 2012, 11:39 PM
> John,
>
> Short from pin 2 to metal top of U11 is OK. Top of Ull
> on my working MTR is connected to ground.
>
> Suggest you visually inspect the whole rig, especially U6
> and U10, using the following tools:
>
> 1) Bright light - spot lamp or other high-intensity source -
> up close to the board
> 2) Magnification - sufficient to judge whether the tiny
> joints are soldered, bridged, or open
> 3) Change the light and the direction you look, so you view
> at more than one angle - try to look under the leads and
> other parts - look for gaps.
>
> Be sure to clean off all the flux per the instructions in
> the manual - otherwise the inspection is likely to be of
> little value. I found that gentle use of a
> short-bristle brush (so-called "acid brush", clipped down to
> about 1/4") with denatured alcohol, followed by Q-tips
> (cotton swabs) with a little more alcohol to soak up the
> residue, was effective.
>
> If any of the tiny pins on the IC's are bent, they may look
> OK but may not actually be soldered to the pads.
>
> Check to be sure that all IC's and other polarized parts are
> oriented per the charts in the manual.
>
> Be sure to check the three supply voltages in the rig.
> The two regulators should be very close to their specs.
>

> Whatever you do, don't do what I did:
>
> I had the DC power connector, the headphone connector, and
> the paddles connector all connected by short leads to the
> PCB. I failed to insulate the solder pins on the power
> connector. While turning the board over to adjust
> trimmers, the power connector touched the paddles
> connector. This allowed 9V to connect to the paddle
> input of the micro processor. That destroyed part of
> the processor. Bad mistake.
>
> Please insulate your connectors while doing tests and
> measurements. A piece of tape or sleeving will work.
>
> Avoid slipping with meter or scope probes.
>
> If you can't see and correct any problems, perhaps you
> should try measuring the voltages on various pins using the
> charts in the manual.
>
> It is true that these radios usually work well, once all the
> solder connections are correct. Once you get your MTR
> going, your patience will be rewarded!
>
> Good luck,
>
> Carey
> KX0R

10173. Re: [AT_Sprint] Re: MTR Troubleshooting

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-21 20:58:31 UTC
From: Richard
Topic: 10169 Message: 10173

Print the image in gray scale and you can keep track of tests so you don't miss something.

Rich
NU6T

Kurt Savegnago <ksaves2@sbcglobal.net> wrote:

>One other thing I've found helpful is if you have a document scanner,
>scan a board and you'd be surprised as to resolution you can see on your
>computer monitor. With my old HP scanner it yields a very clear magnified
>image. It ends up 30 to 50mb using SANE in my linux box but is very clear.
>
> Kurt KC9LDH
>
>--- On Wed, 12/19/12, radio_kx0r <careyfuller@comcast.net> wrote:
>
>> From: radio_kx0r <careyfuller@comcast.net>
>> Subject: [AT_Sprint] Re: MTR Troubleshooting
>> To: AT_Sprint@yahoogroups.com
>> Date: Wednesday, December 19, 2012, 11:39 PM
>> John,
>>
>> Short from pin 2 to metal top of U11 is OK. Top of Ull
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>>
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>> Avoid slipping with meter or scope probes.
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>> If you can't see and correct any problems, perhaps you
>> should try measuring the voltages on various pins using the
>> charts in the manual.
>>
>> It is true that these radios usually work well, once all the
>> solder connections are correct. Once you get your MTR
>> going, your patience will be rewarded!
>>
>> Good luck,
>>
>> Carey
>> KX0R
>

10174. MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-24 13:16:50 UTC
From: k4byf050431
Topic: 10174 Message: 10174

Iam looking for an unbuilt MTR kit or info on when or if more kits will be available. 72 de Jack

10175. FW: The True Story of Rudolph

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-25 06:27:05 UTC
From: Dale Putnam
Topic: 10175 Message: 10175
Attachments: 3 described; binary payloads are missing from this source WARC

The
True Story of Rudolph

A
man named Bob May, depressed and brokenhearted,
stared out his drafty apartment window
into the chilling December
night.

His
4-year-old daughter Barbara sat on his lap
quietly sobbing. Bob's wife, Evelyn, was dying
of cancer Little Barbara couldn't understand why
her mommy could never come home. Barbara looked
up into her dad's eyes and asked, "Why isn't
Mommy just like everybody else's Mommy?" Bob's
jaw tightened and his eyes welled with tears.
Her question brought waves of grief, but also of
anger. It had been the story of Bob's life.
Life always had to be different for
Bob.

Small
when he was a kid, Bob was often bullied by
other boys. He was too little at the time
to compete in sports. He was often called names
he'd rather not remember. From childhood, Bob
was different and never seemed to fit in. Bob
did complete college, married his loving wife
and was grateful to get his job as a copywriter
at Montgomery Ward
during the Great Depression. Then he
was blessed with his little girl. But it was all
short-lived. Evelyn's bout with cancer
stripped them of all their savings and
now Bob and his daughter were forced to live in
a two-room apartment
in the Chicago slums. Evelyn died
just days before Christmas in
1938.

Bob
struggled to give hope to his child, for whom he
couldn't even afford to buy a Christmas gift.
But if he couldn't buy a gift, he was determined

to make one - a storybook! Bob had created an
animal character in his own mind and
told the animal's story to little
Barbara to give her comfort and hope. Again and
again Bob told the story, embellishing
it more with each telling. Who
was thecharacter? What
was the story all about? The story Bob
May created was his own autobiography in fable
form. The character he created was a misfit
outcast like he was. The name
of the character? A little reindeer
named Rudolph, with a big shiny nose. Bob
finishedthe book just in time to give it to
his little girl on Christmas Day.
But the story doesn't end there.

The
general manager of Montgomery Ward
caught wind of the little storybook
and offered Bob May a nominal fee to
purchase the rights to
print the book. Wards went on to
print,_ Rudolph, the Red-Nosed
Reindeer_ and distribute it to children visiting
Santa Claus intheir stores. By 1946 Wards had
printed and distributed more than six million
copies of Rudolph. That same year, a major
publisher wanted to
purchase the rights from Wards to
print an updated version
of the book.

In
an unprecedented gesture of kindness, the
CEO of Wards returned all rights back to Bob
May. The book became a best seller. Many toy and
marketing deals followed and Bob May, now
remarried with a growing family, became wealthy
from the story he created to comfort
his grieving daughter. But the story
doesn't end there either.

Bob's
brother-in-law, Johnny Marks, made a song
adaptation to Rudolph. Though the song
was turned down by such popular vocalists as
Bing Crosby and Dinah Shore , it
was recorded by the singing cowboy,
Gene Autry.
"Rudolph, the Red-Nosed Reindeer" was

released in 1949 and became a phenomenal
success, selling more records than any other
Christmas song, with the exception of
"White Christmas."

The
gift of love that Bob May created for his
daughter so long ago kept on returning back to
bless him again and again. And Bob May
learned the lesson, just like his dear
friend Rudolph, that being different isn't so
bad. In fact, being different can be a
blessing.

MERRY
CHRISTMAS

2012

Enjoy
life...it has an expiration date!

10176. Working with this hobby gadgets I hope that ...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-25 10:31:00 UTC
From: Milton Riutort
Topic: 10176 Message: 10176
Attachments: 1 described; binary payloads are missing from this source WARC

Working with this hobby gadgets I hope that ...

Every microchip found its neighbors parts and the main board keep supporting and giving the path to the RF letting our signals accelerate and scape into the air to keep us together.

Merry Christmas to all!

73 from Milton
NP4KT

10177. Re: [AT_Sprint] FW: The True Story of Rudolph

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-25 15:13:10 UTC
From: Ronald M. Brown
Topic: 10175 Message: 10177

Dale,

Thanks, what a great story to share on Christmas Day.

Merry Christmas to all.

Ron B.
N3CAZ

On Dec 25, 2012, at 1:27 AM, Dale Putnam <daleputnam@...> wrote:

>
>
>
>
>
>
>
>
>
> The True Story of Rudolph
>
>
>
>
> <image0011.jpg>
>
>
>
>
> A man named Bob May, depressed and brokenhearted, stared out his drafty apartment window into the chilling December night.
>
> His 4-year-old daughter Barbara sat on his lap quietly sobbing. Bob's wife, Evelyn, was dying of cancer Little Barbara couldn't understand why her mommy could never come home. Barbara looked up into her dad's eyes and asked, "Why isn't Mommy just like everybody else's Mommy?" Bob's jaw tightened and his eyes welled with tears. Her question brought waves of grief, but also of anger. It had been the story of Bob's life. Life always had to be different for Bob.
>
> Small when he was a kid, Bob was often bullied by other boys. He was too little at the time to compete in sports. He was often called names he'd rather not remember. From childhood, Bob was different and never seemed to fit in. Bob did complete college, married his loving wife and was grateful to get his job as a copywriter at Montgomery Ward during the Great Depression. Then he was blessed with his little girl. But it was all short-lived. Evelyn's bout with cancer stripped them of all their savings and now Bob and his daughter

were forced to live in a two-room apartment in the Chicago slums. Evelyn died just days before Christmas in 1938.
>
> Bob struggled to give hope to his child, for whom he couldn't even afford to buy a Christmas gift. But if he couldn't buy a gift, he was determined to make one - a storybook! Bob had created an animal character in his own mind and told the animal's story to little Barbara to give her comfort and hope. Again and again Bob told the story, embellishing it more with each telling. Who was thecharacter? What was the story all about? The story Bob May created was his own autobiography in fable form. The character he created was a misfit outcast like he was. The name of the character? A little reindeer named Rudolph, with a big shiny nose. Bob finishedthe book just in time to give it to his little girl on Christmas Day. But the story doesn't end there.
>
> The general manager of Montgomery Ward caught wind of the little storybook and offered Bob May a nominal fee to purchase the rights to print the book. Wards went on to print,_ Rudolph, the Red-Nosed Reindeer_ and distribute it to children visiting Santa Claus intheir stores. By 1946 Wards had printed and distributed more than six million copies of Rudolph. That same year, a major publisher wanted to purchase the rights from Wards to print an updated version of the book.
>
> In an unprecedented gesture of kindness, the CEO of Wards returned all rights back to Bob May. The book became a best seller. Many toy and marketing deals followed and Bob May, now remarried with a growing family, became wealthy from the story he created to comfort his grieving daughter. But the story doesn't end there either.
>
> Bob's brother-in-law, Johnny Marks, made a song adaptation to Rudolph. Though the song was turned down by such popular vocalists as Bing Crosby and Dinah Shore , it was recorded by the singing cowboy, Gene Autry. "Rudolph, the Red-Nosed Reindeer" was released in 1949 and became a phenomenal success, selling more records than any other Christmas song, with the exception of "White Christmas."
> <image0023.jpg>
> The gift of love that Bob May created for his daughter so long ago kept on returning back to bless him again and again. And Bob May learned the lesson, just like his dear friend Rudolph, that being different isn't so bad. In fact, being different can be a blessing.
>
> <image0032.gif>
>
> MERRY CHRISTMAS
>
> 2012
>
>
>
>
>
> Enjoy life...it has an expiration date!
>
>
>
>
>

10178. Re: [AT_Sprint] MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-26 01:01:01 UTC
From: Steven Weber
Topic: 10174 Message: 10178

> Iam looking for an unbuilt MTR kit or info on when or if more kits will be
> available. 72 de Jack
>
Probably in early to mid Febuary when the new custom cases are ready.

Steve KD1JV

10179. Re: MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-26 15:26:20 UTC
From: peri_cristiano
Topic: 10174 Message: 10179

Hi Steve, I am a new licensed OM and probably I will receive my call sign in january-febrary.
In these months I am studying and learning cw and I am loving it, so I'd like to have a your kit and I need to know if is possible sending it to Italy or do it using my Fedex account (I have it for job).

Another question, can you explain me differences between MTR and ATS3?

Thank you very much and 73
Cristiano

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> > Iam looking for an unbuilt MTR kit or info on when or if more kits will be
> > available. 72 de Jack
> >
> Probably in early to mid Febuary when the new custom cases are ready.
>
> Steve KD1JV
>

10180. Re: [AT_Sprint] Re: MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-26 23:37:53 UTC
From: Yannick DEVOS (XV4Y)
Topic: 10174 Message: 10180

Dear Cristiano,

Currently Steve have no stocks for any kit.
He will announce a new batch of around 100 Mountain Topper Rig kigs around february.
You should watch this list and once the kits availability is announced order yours quickly as they all will be sold in less than 48 hours.
Of course Steve can ship it to Italy. I received mine in Viet-Nam...

The ATS-3 is an older version of a similar design. The MTR includes several improvements.
The main difference is that the ATS-3 used pluggable band modules allowing you to change the band for transmission/receiving.
The MTR only has 2 bands that you have to choose at construction time.
Personally I prefer the "2 fixed bands" design of the MTR as :
- when going portable I don't take 10 antennas or a big antenna tuner
- pluggable modules can be fragile and are a source for bad contacts and possible troubles
- with two bands you can have "daytime band" (20 meters) and one "night band" (30m or 40m)

Please notice that these kits are not easy one to assemble.
Soldering SMT parts is something that need good experience and patience.
This transceiver being really compact, they are not the easiest to troubleshoot either.
If it is your first kit, you should try something else.
If you are experience with electronic, then you will see that they are great to build (superb design and part quality) and great to use.

Best seasons greetings,
73,
Yan.

Yannick DEVOS - XV4Y
New online shop for kits and more
http://xv4y.radioclub.asia/boutique/

Le 26 déc. 2012 à 22:26, peri_cristiano a écrit :

> Hi Steve, I am a new licensed OM and probably I will receive my call sign in january-febrary.
> In these months I am studying and learning cw and I am loving it, so I'd like to have a your kit and I need to know if is possible sending it to Italy or do it using my Fedex account (I have it for job).
>
> Another question, can you explain me differences between MTR and ATS3?
>
> Thank you very much and 73
> Cristiano
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:

>>
>>> Iam looking for an unbuilt MTR kit or info on when or if more kits will be
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>>
>> Steve KD1JV
>>
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>

10181. Re: [AT_Sprint] Re: MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-27 10:30:18 UTC
From: f6ddv
Topic: 10174 Message: 10181

Hello to all
I understand the demands of our friend, I bought a ATS 3B used and I am very satisfied with this unit
It is simple and effective, and 4 bands it is great for the price.
we no longer talk much older ATS on the list, two bands is a bit limited I think.
I even sold my pfr3 a friend who insisted to have a lot ... because it is small and lightweight you can easily put a sota tuner
or something to tune the antenna.
There is no bad contacts and if this is the case, it is easy to tighten a little pin with a needle.
I think I'd be interested to put it in a box a little more solid and replace connecterur power and put a BNC or SMA antenna.
BS170 can be also a day if there is a problem with the PA
This is in no hurry ...
but otherwise it is very much like that
73s all
jean-paul F6DDV
----- Original Message -----
From: Yannick DEVOS (XV4Y)
To: AT_Sprint@yahoogroups.com
Sent: Thursday, December 27, 2012 12:37 AM
Subject: Re: [AT_Sprint] Re: MTR kit

Dear Cristiano,

Currently Steve have no stocks for any kit.
He will announce a new batch of around 100 Mountain Topper Rig kigs around february.
You should watch this list and once the kits availability is announced order yours quickly as they all will be sold in less than 48 hours.
Of course Steve can ship it to Italy. I received mine in Viet-Nam...

The ATS-3 is an older version of a similar design. The MTR includes several improvements.
The main difference is that the ATS-3 used pluggable band modules allowing you to change the band for transmission/receiving.
The MTR only has 2 bands that you have to choose at construction time.
Personally I prefer the "2 fixed bands" design of the MTR as :
- when going portable I don't take 10 antennas or a big antenna tuner
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Please notice that these kits are not easy one to assemble.
Soldering SMT parts is something that need good experience and patience.
This transceiver being really compact, they are not the easiest to troubleshoot either.
If it is your first kit, you should try something else.
If you are experience with electronic, then you will see that they are great to build (superb design and part quality) and great to use.

Best seasons greetings,
73,
Yan.

Yannick DEVOS - XV4Y
New online shop for kits and more
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Le 26 déc. 2012 à 22:26, peri_cristiano a écrit :

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> Thank you very much and 73
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>
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>> Probably in early to mid Febuary when the new custom cases are ready.
>>
>> Steve KD1JV
>>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

10182. Re: [AT_Sprint] Re: MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 14:42:24 UTC
From: Hank Greeb
Topic: 10174 Message: 10182

Thanks, Jean-Paul:

I, too, have a "grand-daddy" of the AT-Sprint series. Mine is the original, no suffix, 40, 30, 20 meters. It claims to have somewhat higher power consumption at 55 ma on receive. The pins on the modules are smaller than in the later series, and occasionally bend if I don't get them aligned correctly before trying to seat them, but they haven't broken. The unit was built in 2003, and is still very functional.

Any AT-Sprint one can find for sale on this list and on e-Bay should be a very satisfactory rig. The newest rigs have 80/40/30/20/17/15 meters, which offer high versatility. Some of these can run PSK-31 and some other modes with a change in programming of the firmware. All of these features are described in the files section of this Yahoo Group.

If you don't feel up to the task of building, or diagnosis and repair, several people offer building and repair services.

My recommendation, if you are in a hurry, watch for the new MTR kits. If you want maximum versatility, find a built AT-Sprint (any model) or kit for sale here or on e-Bay. You won't go wrong either way.

72/73 de n8xx Hg
QRP >99.44% of the time

==========

Merci, Jean-Paul:

Moi aussi, avoir un "grand-p?re" de la s?rie AT-Sprint. Le mien est l'original, pas de suffixe, 40, 30, 20 m?tres. Il pr?tend avoir la consommation d'?nergie un peu plus ?lev?e ? 55 mA en r?ception. Les broches des modules sont plus petits que dans la s?rie plus tard, et parfois se tordre si je ne re?ois pas les aligner correctement avant d'essayer de les si?ge, mais ils n'ont pas rompu. L'appareil a ?t? construit en 2003 et est encore tr?s fonctionnel.

Toute AT-Sprint, on peut trouver ? la vente sur cette liste et sur e-Bay devrait ?tre une plate-forme tr?s satisfaisante. Les nouveaux appareils de forage ont 80/40/30/20/17/15 m?tres, qui offrent une grande polyvalence. Certains d'entre eux peuvent fonctionner PSK-31 et d'autres modes avec un changement dans la programmation du firmware. Toutes ces caract?ristiques sont d?crites dans la section des fichiers de ce groupe Yahoo.

Si vous ne vous sentez pas ? la hauteur du b?timent, de diagnostic et de r?paration, plusieurs personnes offrent des services de construction et

de r?paration.

Ma recommandation, si vous ?tes press?, regardez pour les kits MTR nouvelles. Si vous voulez un maximum de polyvalence, de trouver un construit AT-Sprint (tout mod?le) ou un kit ? vendre ici ou sur e-Bay. Vous ne vous tromperez pas de toute fa?on.

post-scriptum: Comment avez Google Translate faire?

On 12/27/2012 5:30 AM, f6ddv wrote:
>
> Hello to all
> I understand the demands of our friend, I bought a ATS 3B used and I
> am very satisfied with this unit
> It is simple and effective, and 4 bands it is great for the price.
> we no longer talk much older ATS on the list, two bands is a bit
> limited I think.
> I even sold my pfr3 a friend who insisted to have a lot ... because it
> is small and lightweight you can easily put a sota tuneror something
> to tune the antenna.
> There is no bad contacts and if this is the case, it is easy to
> tighten a little pin with a needle.
> I think I'd be interested to put it in a box a little more solid and
> replace connecterur power and put a BNC or SMA antenna.
> BS170 can be also a day if there is a problem with the PA
> This is in no hurry ...but otherwise it is very much like that
> 73s all
> jean-paul F6DDV

10183. Re: [AT_Sprint] Re: MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-28 10:02:52 UTC
From: f6ddv
Topic: 10174 Message: 10183

Hello Henry
Yes the translation is done correctly
ok for the model before I had a connector ATS 3A weaker or smaller, mine is like an IC socket, no problem.
It is true that a unit with 4 bands without changing the plates is also good, but I would not give my ATS 3A to have a 2-band ...
I prefer to replace the cards with the filters, it is not very long ...
or else I will have to find a model four bands "opportunity"
What is lacking is a model 10 12 15 17 m H. I. :))
73s
jean-paul F6DDV

From: Hank Greeb
To: AT_Sprint@yahoogroups.com
Cc: f6ddv
Sent: Sunday, January 27, 2013 3:42 PM
Subject: Re: [AT_Sprint] Re: MTR kit

Thanks, Jean-Paul:
I, too, have a "grand-daddy" of the AT-Sprint series. Mine is the original, no suffix, 40, 30, 20 meters. It claims to have somewhat higher power consumption at 55 ma on receive. The pins on the modules are smaller than in the later series, and occasionally bend if I don't get them aligned correctly before trying to seat them, but they haven't broken. The unit was built in 2003, and is still very functional.

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If you don't feel up to the task of building, or diagnosis and repair, several people offer building and repair services.

My recommendation, if you are in a hurry, watch for the new MTR kits. If you want maximum versatility, find a built AT-Sprint (any model) or kit for sale here or on e-Bay. You won't go wrong either way.

72/73 de n8xx Hg
QRP >99.44% of the time

==========

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BS170 can be also a day if there is a problem with the PA
This is in no hurry ...but otherwise it is very much like that
73s all
jean-paul F6DDV

10184. AT Sprint III project starting soon!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-30 21:35:57 UTC
From: Keith Hamilton
Topic: 10184 Message: 10184

I purchased an unassembled AT Sprint III and I am looking forward to a slow winter project. This is not my first kit by far but it will be my first attempt at SMD soldering. Wish me luck!

73
Keith N8CEP

10185. Re: [AT_Sprint] AT Sprint III project starting soon!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-30 22:01:29 UTC
From: Lee Hiers
Topic: 10184 Message: 10185

On Sun, Dec 30, 2012 at 4:35 PM, Keith Hamilton <tuner@...>wrote:

> I purchased an unassembled AT Sprint III and I am looking forward to a
> slow winter project. This is not my first kit by far but it will be my
> first attempt at SMD soldering. Wish me luck!
>

Hey Keith,

I'm sure you'll enjoy the ATS! If you've never done any SMD work before, you might want to think about a practice kit or two before tackling the ATS rig. I did one of the qrpkits dummy loads - really very easy with lots of room around the resistors...plus I got a nice DL out of it. I then went to a Softrock SDR kit. It was a little more challenging, but not bad at all - a good stepping stone up to the ATS. The ATS uses more, smaller, and closer-together parts than either of those I mentioned.

Have fun & GL,

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10186. RE: [AT_Sprint] AT Sprint III project starting soon!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-30 22:20:22 UTC
From: Dale Putnam
Topic: 10184 Message: 10186

Good Luck Keith, Use solder sparingly, and rosin even more sparingly... lot of light, and light on the touch.. you'll do fine!!
Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: tuner@...
Date: Sun, 30 Dec 2012 21:35:57 +0000
Subject: [AT_Sprint] AT Sprint III project starting soon!

I purchased an unassembled AT Sprint III and I am looking forward to a slow winter project. This is not my first kit by far but it will be my first attempt at SMD soldering. Wish me luck!

73

Keith N8CEP

10187. Re: [AT_Sprint] AT Sprint III project starting soon!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2012-12-31 00:14:13 UTC
From: Keith Hamilton
Topic: 10184 Message: 10187

Thanks Lee! I like that suggestion! I think I will follow your advise!

73
Keith N8CEP

On Dec 30, 2012, at 5:01 PM, Lee Hiers <lee.hiers@...> wrote:

> On Sun, Dec 30, 2012 at 4:35 PM, Keith Hamilton <tuner@zoominternet.net> wrote:
>
>
>> I purchased an unassembled AT Sprint III and I am looking forward to a slow winter project. This is not my first kit by far but it will be my first attempt at SMD soldering. Wish me luck!
> Hey Keith,
>
> I'm sure you'll enjoy the ATS! If you've never done any SMD work before, you might want to think about a practice kit or two before tackling the ATS rig. I did one of the qrpkits dummy loads - really very easy with lots of room around the resistors...plus I got a nice DL out of it. I then went to a Softrock SDR kit. It was a little more challenging, but not bad at all - a good stepping stone up to the ATS. The ATS uses more, smaller, and closer-together parts than either of those I mentioned.
>
> Have fun & GL,
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to http://www.aa4ga.com/p/qrp-dxcc.html for more info!
>
>
>

10188. new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 00:54:48 UTC
From: cloud runner
Topic: 10188 Message: 10188

Did a SOTA today in New Mexico using an ATS3B powered by a 1,000 mAH LiPO battery. The 31 QSO half hour activation resulted in a new power consumption "personal record" of 4.87 mAH per QSO. It was probably less because I did not top off the battery before leaving, and it was last charged nearly two months ago.

Only used 151 mAH from the battery. Obviously, the battery was too big ;-) I have a smaller battery now, a 500 mAH, that I am going to begin to use instead.

73 & HNY,

Fred - KT5X

aka WS0TA when on a SOTA Peak

ATS3B

ATS4B

MTR # 98 under construction

10189. Re: [AT_Sprint] new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 01:05:00 UTC
From: Johnny Matlock
Topic: 10188 Message: 10189

Rock on Fred!
Sounds like fun to me!
I am looking for a "peak" in Ks to activate.
I think that would be some kinda neat fun.
72
Johnny AC0BQ

On Thursday, January 3, 2013, cloud runner wrote:

> **
>
>
> **
> Did a SOTA today in New Mexico using an ATS3B powered by a 1,000 mAH LiPO
> battery. The 31 QSO half hour activation resulted in a new power
> consumption "personal record" of 4.87 mAH per QSO. It was probably less
> because I did not top off the battery before leaving, and it was last
> charged nearly two months ago.
>
> Only used 151 mAH from the battery. Obviously, the battery was too big
> ;-) I have a smaller battery now, a 500 mAH, that I am going to begin to
> use instead.
>
> 73 & HNY,
>
> Fred - KT5X
>
> aka WS0TA when on a SOTA Peak
>
> ATS3B
>
> ATS4B
>
> MTR # 98 under construction
>
>
>

10190. Re: new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 14:08:22 UTC
From: steve_wg0at
Topic: 10188 Message: 10190

Fred, Knowing those SOTA QSOs aren't your average rag chew QSOs more likely 10-15 seconds if that. If this were case you could probably estimate you were burning approximately .33 mAH/second. Wow! now that's a green radio if there ever was one! And I bet you charged your battery with solar energy as well, right? ...Steve/wGOAT

--- In AT_Sprint@yahoogroups.com, "cloud runner" wrote:
>
> Did a SOTA today in New Mexico using an ATS3B powered by a 1,000 mAH LiPO battery. The 31 QSO half hour activation resulted in a new power consumption "personal record" of 4.87 mAH per QSO. It was probably less because I did not top off the battery before leaving, and it was last charged nearly two months ago.
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>
> ATS3B
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> MTR # 98 under construction
>

10191. Re: new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 15:05:48 UTC
From: cloud runner
Topic: 10188 Message: 10191

Ha-hah-hah, in fact, I run the whole house including electric heat on a large solar photovoltaic tracker!

73- fred - kt5x
aka WS0TA

--
Fred, Knowing those SOTA QSOs aren't your average rag chew QSOs more likely 10-15 seconds if that. If this were case you could probably estimate you were burning approximately .33 mAH/second. Wow! now that's a green radio if there ever was one! And I bet you charged your battery with solar energy as well, right? ...Steve/wGOAT

10192. Re: new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 16:38:13 UTC
From: Etienne Scott
Topic: 10188 Message: 10192

Hey Fred -

What voltage was your 1000 mAH battery pack? And who makes that one and the 500 mAH pack that you are using next?

Makes me think that running on 2500 mAH AA alkaline batteries would be overkill...

Thanks,
Etienne, K7ATN

--- In AT_Sprint@yahoogroups.com, "cloud runner" wrote:
>
> Did a SOTA today in New Mexico using an ATS3B powered by a 1,000 mAH LiPO battery. The 31 QSO half hour activation resulted in a new power consumption "personal record" of 4.87 mAH per QSO. It was probably less because I did not top off the battery before leaving, and it was last charged nearly two months ago.
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> Only used 151 mAH from the battery. Obviously, the battery was too big ;-) I have a smaller battery now, a 500 mAH, that I am going to begin to use instead.
>
> 73 & HNY,
>
> Fred - KT5X

10193. Re: [AT_Sprint] Re: new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 16:48:52 UTC
From: Lee Hiers
Topic: 10188 Message: 10193

On Fri, Jan 4, 2013 at 11:38 AM, Etienne Scott <climb2ski97215@...>wrote:

What voltage was your 1000 mAH battery pack? And who makes that one and the
> 500 mAH pack that you are using next?
>
> Makes me think that running on 2500 mAH AA alkaline batteries would be
> overkill...
>
I mentioned to Fred offline that I have over three hours operation on a
single Eveready 9v primary lithium battery in my ATS3b, and it's got
voltage left still...and that wasn't just RX, as I used it for Spartan
Sprints - lots of transmitting. I haven't done SOTA with the ATS yet, but
if you're a CW op, it's just about perfect for that. My hikes have been
pretty leisurely and I haven't worried much about weight, so I've used an
FT817, and a KX3 most recently...but plan to use the ATS later this year
from a mountain....could probably stuff everything in my pockets and not
even use a pack! ;-)

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10194. Re: new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 17:25:34 UTC
From: cloud runner
Topic: 10188 Message: 10194

My 1,000 mAH LiPO was in the order of seven bux, Blue LiPO brand, from Hobbypartz dot com. It is a 3S in other words 11.1 to 11.6 for its flat area of discharge, BUT, fully charged it is 12.4 volts, and in working 31 QSO's it discharged all the way down to 12.0 volts !!! I have changed all my larger batteries to Anderson Powerpoles.

The 500 mAH came from the same source, but it is a Zippy Compact, brand. It weighs less that two ounces, and uses a small JST connector which I think I like more than Andersons for this service since they are so much less bulky.

We did do an experimental activation recently with an ATS4 and the 500 mAH battery. It discharged into its flat range, but only just barely, that is, it was down to 11.6 volts after half an hour of SOTA operation. Oh, and, I think these batteries were like three bux, suppose to recharge hundreds of times.

fred

Hey Fred -

What voltage was your 1000 mAH battery pack? And who makes that one and the 500 mAH pack that you are using next?

Makes me think that running on 2500 mAH AA alkaline batteries would be overkill...

Thanks,
Etienne, K7ATN

--- In AT_Sprint@yahoogroups.com, "cloud runner" wrote:
>
> Did a SOTA today in New Mexico using an ATS3B powered by a 1,000 mAH LiPO battery. The 31 QSO half hour activation resulted in a new power consumption "personal record" of 4.87 mAH per QSO. It was probably less because I did not top off the battery before leaving, and it was last charged nearly two months ago.
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> Only used 151 mAH from the battery. Obviously, the battery was too big ;-) I have a smaller battery now, a 500 mAH, that I am going to begin to use instead.
>
> 73 & HNY,
>
> Fred - KT5X

10195. Re: [AT_Sprint] Re: new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 18:02:37 UTC
From: Keith Hamilton
Topic: 10188 Message: 10195

I would like to find a 500mah Lipo or similar that was more like 11 or 11.5 volts fully charged for my ATS-3B. The problem is when I start looking at all those hobby batteries I get confused about what charger to use and what connector to use. Anyone know of a web page or tutorial to help straighten me out?
Hams get easily confused as we age! lol

Keith N8CEP

On Jan 4, 2013, at 12:25 PM, "cloud runner" <just.one.hill@...> wrote:

>
> My 1,000 mAH LiPO was in the order of seven bux, Blue LiPO brand, from Hobbypartz dot com. It is a 3S in other words 11.1 to 11.6 for its flat area of discharge, BUT, fully charged it is 12.4 volts, and in working 31 QSO's it discharged all the way down to 12.0 volts !!! I have changed all my larger batteries to Anderson Powerpoles.
>
> The 500 mAH came from the same source, but it is a Zippy Compact, brand. It weighs less that two ounces, and uses a small JST connector which I think I like more than Andersons for this service since they are so much less bulky.
>
> We did do an experimental activation recently with an ATS4 and the 500 mAH battery. It discharged into its flat range, but only just barely, that is, it was down to 11.6 volts after half an hour of SOTA operation. Oh, and, I think these batteries were like three bux, suppose to recharge hundreds of times.
>
> fred
>
> Hey Fred -
>
> What voltage was your 1000 mAH battery pack? And who makes that one and the 500 mAH pack that you are using next?
>
> Makes me think that running on 2500 mAH AA alkaline batteries would be overkill...
>
> Thanks,
> Etienne, K7ATN
>
> --- In AT_Sprint@yahoogroups.com, "cloud runner" wrote:
> >
> > Did a SOTA today in New Mexico using an ATS3B powered by a 1,000 mAH LiPO battery. The 31 QSO half hour activation resulted in a new power consumption "personal record" of 4.87 mAH per QSO. It was probably less because I did not top off the battery before leaving, and it was last charged nearly two months ago.
> >
> > Only used 151 mAH from the battery. Obviously, the battery was too big ;-) I have a smaller battery now, a 500 mAH, that I am going to begin to use instead.

> >
> > 73 & HNY,
> >
> > Fred - KT5X
>
>
>
>

10196. Re: [AT_Sprint] Re: new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 18:29:19 UTC
From: Randy Moore
Topic: 10188 Message: 10196

Keith,

For LiPos, you must use a charger that is designed for LiPos. There are bunches of them! You choose one that provides for at least the number of cells in your batteries (11.1 v is 3-cells), and one that allows you to choose a charging current of 1x the mah capacity if the battery (referred to as the "C" rating). The issue with the ATS radios is that you need to keep the supply voltage below 12v. A fully charged 3-cell LiPo will be about 12.4 v. Steve has said this is probably OK if your antenna system has a near 1:1 SWR. Otherwise, you need to stay under 12v. Several means of doing this have been discussed here, including using series diodes and limiting the battery charge to <12v.

On the connector, there are lots of those out there, but you can change them to whatever you want. Just be careful to not short the battery leads while doing it! Most LiPos these days have 2 connectors. One to provide power to a device (your radio), and one for charging. The charging connector allows the charger to charge the cells of the battery independently (only buy a charger that supports this to get the most battery life and to charge safely), and unfortunately there's no standard for these connectors. Most chargers come with adapters that allow charging a variety of battery brands, but this is something you have to check.

Most folks recommend not discharging a LiPo battery below 3.0 volts per cell, under load. It is to this level that the battery capacity is measured.

There are more details, but this covers the big things to worry about.

73,
Randy, KS4L

On Jan 4, 2013, at 12:02 PM, Keith Hamilton <tuner@...t> wrote:

> I would like to find a 500mah Lipo or similar that was more like 11 or 11.5 volts fully charged for my ATS-3B. The problem is when I start looking at all those hobby batteries I get confused about what charger to use and what connector to use. Anyone know of a web page or tutorial to help straighten me out?
> Hams get easily confused as we age! lol
>
> Keith N8CEP

10197. Re: [AT_Sprint] Re: new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 18:47:10 UTC
From: Keith Hamilton
Topic: 10188 Message: 10197

Thanks for all the info Randy! Maybe I better stick to a pack closer to 9Volts.
I am new to the ATS-3 and 3B, so I apologize if I am asking previously
answered questions. I don't want to damage the rig.

73
Keith N8CEP

On Jan 4, 2013, at 1:29 PM, Randy Moore <wrmoore47@...> wrote:

> Keith,
>
> For LiPos, you must use a charger that is designed for LiPos. There are bunches of them! You choose one that provides for at least the number of cells in your batteries (11.1 v is 3-cells), and one that allows you to choose a charging current of 1x the mah capacity if the battery (referred to as the "C" rating). The issue with the ATS radios is that you need to keep the supply voltage below 12v. A fully charged 3-cell LiPo will be about 12.4 v. Steve has said this is probably OK if your antenna system has a near 1:1 SWR. Otherwise, you need to stay under 12v. Several means of doing this have been discussed here, including using series diodes and limiting the battery charge to <12v.
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> On the connector, there are lots of those out there, but you can change them to whatever you want. Just be careful to not short the battery leads while doing it! Most LiPos these days have 2 connectors. One to provide power to a device (your radio), and one for charging. The charging connector allows the charger to charge the cells of the battery independently (only buy a charger that supports this to get the most battery life and to charge safely), and unfortunately there's no standard for these connectors. Most chargers come with adapters that allow charging a variety of battery brands, but this is something you have to check.
>
> Most folks recommend not discharging a LiPo battery below 3.0 volts per cell, under load. It is to this level that the battery capacity is measured.
>
> There are more details, but this covers the big things to worry about.
>
> 73,
> Randy, KS4L
>
> On Jan 4, 2013, at 12:02 PM, Keith Hamilton tuner@...> wrote:
>
> > I would like to find a 500mah Lipo or similar that was more like 11 or 11.5 volts fully charged for my ATS-3B. The problem is when I start looking at all those hobby batteries I get confused about what charger to use and what connector to use. Anyone know of a web page or tutorial to help straighten me out?
> > Hams get easily confused as we age! lol
> >
> > Keith N8CEP

>

10198. Re: [AT_Sprint] new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 19:35:37 UTC
From: Keith Hamilton
Topic: 10188 Message: 10198

Hobbypartz seems to be very low on LiPo battery stock right now.
They have a nice 500mAh 11.1V battery I would like to order.
Perhaps they have lowered their stock for New Years tax time?

73 Keith N8CEP

On Jan 4, 2013, at 12:25 PM, cloud runner <just.one.hill@...> wrote:

>
> My 1,000 mAH LiPO was in the order of seven bux, Blue LiPO brand, from Hobbypartz dot com. It is a 3S in other words 11.1 to 11.6 for its flat area of discharge, BUT, fully charged it is 12.4 volts, and in working 31 QSO's it discharged all the way down to 12.0 volts !!! I have changed all my larger batteries to Anderson Powerpoles.
>
> The 500 mAH came from the same source, but it is a Zippy Compact, brand. It weighs less that two ounces, and uses a small JST connector which I think I like more than Andersons for this service since they are so much less bulky.
>
> We did do an experimental activation recently with an ATS4 and the 500 mAH battery. It discharged into its flat range, but only just barely, that is, it was down to 11.6 volts after half an hour of SOTA operation. Oh, and, I think these batteries were like three bux, suppose to recharge hundreds of times.
>
> fred
>
> Hey Fred -
>
> What voltage was your 1000 mAH battery pack? And who makes that one and the 500 mAH pack that you are using next?
>
> Makes me think that running on 2500 mAH AA alkaline batteries would be overkill...
>
> Thanks,
> Etienne, K7ATN
>
> --- In AT_Sprint@yahoogroups.com, "cloud runner" wrote:
> >
> > Did a SOTA today in New Mexico using an ATS3B powered by a 1,000 mAH LiPO battery. The 31 QSO half hour activation resulted in a new power consumption "personal record" of 4.87 mAH per QSO. It was probably less because I did not top off the battery before leaving, and it was last charged nearly two months ago.
> >
> > Only used 151 mAH from the battery. Obviously, the battery was too big ;-) I have a smaller battery now, a 500 mAH, that I am going to begin to use instead.
> >
> > 73 & HNY,

> >
> > Fred - KT5X
>
>
>
>

10199. Re: new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-04 19:43:04 UTC
From: cloud runner
Topic: 10188 Message: 10199

the 3B has an automatic shut down if current exceeds 800 ma. I don't think you can easily hurt it. I upgraded my finals to BS170's as well. I tune up at nine volts, then operate at 12 volts.

72, Fred - kt5x

> Thanks for all the info Randy! Maybe I better stick to a pack closer to
> 9Volts.
> I am new to the ATS-3 and 3B, so I apologize if I am asking previously
> answered questions. I don't want to damage the rig.
>
> 73
> Keith N8CEP

10200. MTR on the Rocks for a SOTA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-05 01:21:19 UTC
From: steve_wg0at
Topic: 10200 Message: 10200

First Fun SOTA for 2013 with MTR/9v battery and loop ...sunny, 40f and ankle deep snow in places ...MTR performed well! Thanks Randy/KS4L!

I just need to convert it to 30m it's currently on 20/40 but for my purposes I prefer 20/30. Maybe when the weather gets ugly we'll find time.

Pics of today's SOTA adventure:
http://www.flickr.com/photos/goathiker/sets/72157632434252107/show/

73, Steve wG0AT

10201. Re: [AT_Sprint] MTR on the Rocks for a SOTA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-05 01:32:51 UTC
From: Peter Martin
Topic: 10200 Message: 10201

On Sat, Jan 5, 2013 at 1:21 AM, steve_wg0at <qrp.wg0at@...> wrote:

> First Fun SOTA for 2013 with MTR/9v battery and loop ...sunny, 40f and
> ankle deep snow in places ...MTR performed well! Thanks Randy/KS4L!
>
> I just need to convert it to 30m it's currently on 20/40 but for my
> purposes I prefer 20/30. Maybe when the weather gets ugly we'll find time.
>
> Pics of today's SOTA adventure:
> http://www.flickr.com/photos/goathiker/sets/72157632434252107/show/
>
> 73, Steve wG0AT
>

Great photos Steve.
I had my MTR out on New Years Day SOTA too.

Mine is also 40/20 but as I have those bands covered by my ATS4 I'm
thinking of converting mine too.

What I'd actually like is 80/60.

Now for 60m (5Mhz) I can sort out the I/O filters myself, but I don't have
the knowledge on how to reprogram the beast for 5Mhz.

Anyone like to help out with that one?

Pete
G4ISJ

10202. NAQP CW is 8 days from today! Please volunteer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-05 03:29:01 UTC
From: Hank Greeb
Topic: 10202 Message: 10202

Hey, owners of rigs designed by Steven Weber, KD1JV. Do you remember the "call for suckers... errrr.... volunteers for team members for the August 2012 North American QSO Party? Yep, six of us suckers... errr... volunteers had a ball during that operation.

Now, time is getting close. A couple months ago, I sent a couple of preliminary messages concerning teams for the January NAQP. This netted 11 "probable" team members. Right now we have 13 volunteers, and I'm looking for for more!

As I said before we could have up to an infinite number of suckers... errr, volunteers to partake in informal "teams". To refresh your memories: The North American QSO Party (NAQP) CW will be in 8 days, Saturday, January 12, starting at 1800Z and ending Sunday, January 13, 0600Z.

Are you interested? The only requirement is that you'd agree to run QRP with whatever kind of rig you prefer to use. This can be any of the rigs designed by KD1JV, or any other rig which can run at 5 watts or less. We already have enough for two teams of 5, but there's no limit to the number of teams we can have.

The "interesting" part of NAQP, for the QRP op, is that it's a "semi-real" contest. It's not all blood and guts, because it is limited to 100 watts for entrants. So, rigs running 5 watts like the AT-Sprint or similar with a pair of '602's or '612's for first mixer and product detectors won't suffer from large signals overwhelming the front end.

If you think you might be available for part or all of the period of 1800Z, 01/12/13 to 0600Z 01/13/13 please let me know. If something comes up at the last minute, we'll understand. At this point the list is of folks who "most likely" will join such an endeavor. Part timers and operators of any ability level are cordially invited. In August, one of our team members made >250 Q's, and one who made 4 Q's (because of family duties which got in the way of participation).

For those who are interested, rules for these QSO Parties are at http://ncjweb.com/naqprules.pdf

Please advise by private e-mail.

72/73 de n8xx Hg
QRP >99.44% of the time

P.S. The QRP ARCI's Pet Rock Celebration this Saturday, 1500 to 1800Z would be a good "warmup" for the NAQP!

10203. RE: [AT_Sprint] NAQP CW is 8 days from today! Please volunteer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-05 03:45:27 UTC
From: Mike Olbrisch
Topic: 10202 Message: 10203

Wish I could Hank. But I am still waiting for the eventual arrival of my ATS-4B. At the rate this is going, try me next year.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Hank Greeb
Sent: Friday, January 04, 2013 20:29
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] NAQP CW is 8 days from today! Please volunteer

Hey, owners of rigs designed by Steven Weber, KD1JV. Do you remember the "call for suckers... errrr.... volunteers for team members for the August 2012 North American QSO Party? Yep, six of us suckers... errr... volunteers had a ball during that operation.

10204. RE: [AT_Sprint] NAQP CW is 8 days from today! Please volunteer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-05 04:01:22 UTC
From: Lee Hiers
Topic: 10202 Message: 10204

Hey Mike...you don't have to have the ATS rig...just as long as you're QRP!

73 details Lee, AA4GA
On Jan 4, 2013 10:45 PM, "Mike Olbrisch" <mike-2007@...> wrote:

> **
>
>
> Wish I could Hank. But I am still waiting for the eventual arrival of my
> ATS-4B. At the rate this is going, try me next year.
>
> Mike - KD9KC.
>
> -----Original Message-----
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On
> Behalf
> Of Hank Greeb
> Sent: Friday, January 04, 2013 20:29
> To: AT_Sprint@...m
> Subject: [AT_Sprint] NAQP CW is 8 days from today! Please volunteer
>
> Hey, owners of rigs designed by Steven Weber, KD1JV. Do you remember
> the "call for suckers... errrr.... volunteers for team members for the
> August 2012 North American QSO Party? Yep, six of us suckers... errr...
> volunteers had a ball during that operation.
>
>
>

10205. Re: new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-05 04:25:10 UTC
From: r_zerr
Topic: 10188 Message: 10205

Etienne,

You want one of the 3s packs for 11.1V packs. Just about any of the little RC airplane packs seem to work. The "Blue LIPO," or "Zippy Flight Max," are ones that I have heard mentioned as inexpensive and reliable so far.

I did the QRP TTF event last year with a 1000 mAh pack. My actual operating time was around 3-1/2 hours and I did not suffer any power/voltage drop on the pack, and was still in the so called linear range of use. So yes, AA's are overkill/overweight/obese!

-ron

10206. Re: [AT_Sprint] Re: MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-05 17:58:48 UTC
From: f6ddv
Topic: 10174 Message: 10206

Hello again Hanks
and hello to all and happy new year
I read the various ideas regarding battery cells for these units, for my part I use eneloop nimh 2400 or Sanyo green recovery blocks former TRX Portable fire.
when tested with a special charger and several charge and discharge cycles can sort and remove the bad cells, I am building blocks (packs) good quality
10 cells NiMH or 3 cells Li-Ion or Li-Po
Otherwise, I do not have much to write, I do not think I'll build the model immediately 80/40/30/20/17/15 meters because it is no longer possible to find a kit
there may be strong boxes for my ATS3A somewhere?
the ATS3A is good for me, or else may be on ebay in a few days it will be possible to find the latest model 6 bands, it will take a lot I think :) ...
I'd like 10/12/15/17 meters, the low bands interests me less than the higher bands
Sorry for my bad English
73s all
paul F6DDV
----- Original Message -----
From: Hank Greeb
To: AT_Sprint@yahoogroups.com
Thanks, Jean-Paul:
I, too, have a "grand-daddy" of the AT-Sprint series. Mine is the original, no suffix, 40, 30, 20 meters. It claims to have somewhat higher power consumption at 55 ma on receive. The pins on the modules are smaller than in the later series, and occasionally bend if I don't get them aligned correctly before trying to seat them, but they haven't broken. The unit was built in 2003, and is still very functional.

Any AT-Sprint one can find for sale on this list and on e-Bay should be a very satisfactory rig. The newest rigs have 80/40/30/20/17/15 meters, which offer high versatility. Some of these can run PSK-31 and some other modes with a change in programming of the firmware. All of these features are described in the files section of this Yahoo Group.

If you don't feel up to the task of building, or diagnosis and repair, several people offer building and repair services.

My recommendation, if you are in a hurry, watch for the new MTR kits. If you want maximum versatility, find a built AT-Sprint (any model) or kit for sale here or on e-Bay. You won't go wrong either way.

72/73 de n8xx Hg
QRP >99.44% of the time

10207. Re: [AT_Sprint] new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-08 03:30:57 UTC
From: Alan Shapiro
Topic: 10188 Message: 10207

Hi Fred,

I just recharged my 500maH LiPo battery from today's SOTA outing with Mike. 45 Qs and only 164 maHr. Who knows how accurate those numbers are, but it calculates to only 3.6 maHr/Q. I did not call CQ much and just traded RSTs.

Alan
On 1/3/2013 5:54 PM, cloud runner wrote:
>
> Did a SOTA today in New Mexico using an ATS3B powered by a 1,000 mAH
> LiPO battery. The 31 QSO half hour activation resulted in a new power
> consumption "personal record" of 4.87 mAH per QSO. It was probably
> less because I did not top off the battery before leaving, and it was
> last charged nearly two months ago.
> Only used 151 mAH from the battery. Obviously, the battery was too big
> ;-) I have a smaller battery now, a 500 mAH, that I am going to begin
> to use instead.
> 73 & HNY,
> Fred - KT5X
> aka WS0TA when on a SOTA Peak
> ATS3B
> ATS4B
> MTR # 98 under construction
>

10208. Re: [AT_Sprint] new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-08 14:24:19 UTC
From: cloud runner
Topic: 10188 Message: 10208

New unofficial, official record !!! FB

SRI missed you guys yesterday; went to breakfast with John and Jim and Phil, then to Jim's house going through various possibilities relating to the MTR build.

Am debating in my mind all sorts of ways to do the deployment ... I am leaning toward something by which the radio is not on the pole, but in my hand so I can access the radio's controls. My thinking is the a short piece of RG174 loss is only two tenths of a DB, and it weighs only one ounce with a connector. And it eliminates the cable for the paddle which is close to the same wight such that it is a wash, but more convenient.

So that has me contemplating all sorts of ways for the thing that is held in the hand which supports the radio, battery, paddle, and log backing ...

fd
----- Original Message -----
From: Alan Shapiro
To: AT_Sprint@yahoogroups.com
Sent: Monday, January 07, 2013 8:30 PM
Subject: Re: [AT_Sprint] new PR

Hi Fred,

I just recharged my 500maH LiPo battery from today's SOTA outing with Mike. 45 Qs and only 164 maHr. Who knows how accurate those numbers are, but it calculates to only 3.6 maHr/Q. I did not call CQ much and just traded RSTs.

Alan

On 1/3/2013 5:54 PM, cloud runner wrote:

Did a SOTA today in New Mexico using an ATS3B powered by a 1,000 mAH LiPO battery. The 31 QSO half hour activation resulted in a new power consumption "personal record" of 4.87 mAH per QSO. It was probably less because I did not top off the battery before leaving, and it was last charged nearly two months ago.

Only used 151 mAH from the battery. Obviously, the battery was too big ;-) I have a smaller battery now, a 500 mAH, that I am going to begin to use instead.

73 & HNY,

Fred - KT5X

aka WS0TA when on a SOTA Peak

ATS3B

ATS4B

MTR # 98 under construction

10209. SRI messages sent in error

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-08 15:31:33 UTC
From: Alan Shapiro
Topic: 10209 Message: 10209

I accidentally overwrote Fred, KT5X's address with the group's
NM5S

10210. KD1JV-related kits for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-08 16:12:56 UTC
From: John Shadle
Topic: 10210 Message: 10210

Hi all,
I'm cleaning out the basement and trying to cull things I am not using.
These are of interest to this group, so I'm posting them here.

KD1JV variable power supply - $20
- PC board from FarCircuits
- all parts required for assembly

Altoids 20W PA by JN1GLB- $75
- completed amp built by Vojtěch Bubník
- includes filter boards for 15m, 17m, 20m, 30m, 40m, and 80m

Please reply off list with your mailing address so that I may calculate shipping costs. I prefer payment by USPS Money Order (ships upon receipt of money) or personal check (held for 10 days after receipt in order to clear before shipping).

Thanks.
-john W4PAH
Madison, WI

10211. Did you get the

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-08 16:52:24 UTC
From: Philip Townsend Lontz
Topic: 10209 Message: 10211

Prop report from me?

Sent, as to how? Who cares!

On Jan 8, 2013, at 8:31 AM, Alan Shapiro <nm5s@...> wrote:

> I accidentally overwrote Fred, KT5X's address with the group's
> NM5S
>

10212. Re: [AT_Sprint] new PR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-08 16:55:02 UTC
From: Philip Townsend Lontz
Topic: 10188 Message: 10212

Fred will the SMA connectors work for the RG174 on the MTR?
Phil
K5SSR

Sent, as to how? Who cares!

On Jan 8, 2013, at 7:24 AM, cloud runner <just.one.hill@...> wrote:

> New unofficial, official record !!! FB
>
> SRI missed you guys yesterday; went to breakfast with John and Jim and Phil, then to Jim's house going through various possibilities relating to the MTR build.
>
> Am debating in my mind all sorts of ways to do the deployment ... I am leaning toward something by which the radio is not on the pole, but in my hand so I can access the radio's controls. My thinking is the a short piece of RG174 loss is only two tenths of a DB, and it weighs only one ounce with a connector. And it eliminates the cable for the paddle which is close to the same wight such that it is a wash, but more convenient.
>
> So that has me contemplating all sorts of ways for the thing that is held in the hand which supports the radio, battery, paddle, and log backing ...
>
> fd
> ----- Original Message -----
> From: Alan Shapiro
> To: AT_Sprint@yahoogroups.com
> Sent: Monday, January 07, 2013 8:30 PM
> Subject: Re: [AT_Sprint] new PR
>
>
> Hi Fred,
>
> I just recharged my 500maH LiPo battery from today's SOTA outing with Mike. 45 Qs and only 164 maHr. Who knows how accurate those numbers are, but it calculates to only 3.6 maHr/Q. I did not call CQ much and just traded RSTs.
>
> Alan
> On 1/3/2013 5:54 PM, cloud runner wrote:
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>> Did a SOTA today in New Mexico using an ATS3B powered by a 1,000 mAH LiPO battery. The 31 QSO half hour activation resulted in a new power consumption "personal record" of 4.87 mAH per QSO. It was probably less because I did not top off the battery before leaving, and it was last charged nearly two months ago.
>>
>> Only used 151 mAH from the battery. Obviously, the battery was too big ;-) I have a smaller battery now, a 500 mAH, that I am going to begin to use instead.

>>
>> 73 & HNY,
>>
>> Fred - KT5X
>>
>> aka WS0TA when on a SOTA Peak
>>
>> ATS3B
>>
>> ATS4B
>>
>> MTR # 98 under construction
>
>

10213. Re: [AT_Sprint] KD1JV-related kits for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-08 17:26:21 UTC
From: J Brown
Topic: 10210 Message: 10213

If your 20 W PA is operational I would like to buy,,,,,may be too late
though!

73m

Jerry N4EO/ex-YI9EO

On Tue, Jan 8, 2013 at 10:12 AM, John Shadle <shadle@...> wrote:

> **
>
>
> Hi all,
> I'm cleaning out the basement and trying to cull things I am not using.
> These are of interest to this group, so I'm posting them here.
>
> KD1JV variable power supply - $20
> - PC board from FarCircuits
> - all parts required for assembly
>
> Altoids 20W PA by JN1GLB- $75
> - completed amp built by Vojtěch Bubník
> - includes filter boards for 15m, 17m, 20m, 30m, 40m, and 80m
>
> Please reply off list with your mailing address so that I may calculate
> shipping costs. I prefer payment by USPS Money Order (ships upon receipt of
> money) or personal check (held for 10 days after receipt in order to clear
> before shipping).
>
> Thanks.
> -john W4PAH
> Madison, WI
>
>

10214. Re: KD1JV-related kits for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-08 19:29:00 UTC
From: shadle
Topic: 10210 Message: 10214

Jerry,
Please drop me a line off-list so we can arrange a sale. It is still available (shadle at katzenfisch dot com).

-john W4PAH

--- In AT_Sprint@yahoogroups.com, J Brown wrote:
>
> If your 20 W PA is operational I would like to buy,,,,,may be too late
> though!
>
> 73m
>
> Jerry N4EO/ex-YI9EO
>
> On Tue, Jan 8, 2013 at 10:12 AM, John Shadle wrote:
>
> > **
> >
> >
> > Hi all,
> > I'm cleaning out the basement and trying to cull things I am not using.
> > These are of interest to this group, so I'm posting them here.
> >
> > KD1JV variable power supply - $20
> > - PC board from FarCircuits
> > - all parts required for assembly
> >
> > Altoids 20W PA by JN1GLB- $75
> > - completed amp built by VojtÄ□ch BubnÃk
> > - includes filter boards for 15m, 17m, 20m, 30m, 40m, and 80m
> >
> > Please reply off list with your mailing address so that I may calculate
> > shipping costs. I prefer payment by USPS Money Order (ships upon receipt of
> > money) or personal check (held for 10 days after receipt in order to clear
> > before shipping).
> >
> > Thanks.
> > -john W4PAH
> > Madison, WI
> >
> >
>

10215. *For Sale* one more KD1JV kit -- Table Top Nor'Easter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-08 22:13:25 UTC
From: John Shadle
Topic: 10215 Message: 10215

Got this about 85% built. Will include documentation (from KD1JV)

KD1JV Table Top Nor'Easter RX - $55 + shipping (~$3.00)
- through-hole version of this RX
- tunes 200 kHz to 19 MHz

Thanks!
-john

10216. NAQCC Sprint Wednesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-12 16:33:15 UTC
From: NAQCC
Topic: 2848 Message: 10216

NAQCC Sprint Wednesday night!

Our January sprint is this coming Wednesday evening local time (January 16, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Thursday January 17, 0130-0330Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201301.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX for 1st, 2nd and 3rd place finishers (New!). A Certificate for top score in the GAIN antenna category.

Prizes: Too many to list!! - check out the prizes page on our website.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6400+ members in: All 50 States - 9 VE Provinces - 90 Countries. Make it one of your New Year's resolutions and sign up on the NAQCC website today (http://naqcc.info/) to receive a handsome certificate, with your membership number on it, which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

10217. Re: [AT_Sprint] Digest Number 1858

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-14 14:47:34 UTC
From: bevcomm
Topic: 10217 Message: 10217

AT Sprintis anyone else having trouble with a error popup on this link?
Thanks Arthur NS7E

From: AT_Sprint@yahoogroups.com
Sent: Sunday, January 13, 2013 3:52 AM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Digest Number 1858

AT Sprint Group 1 New Message Digest #1858 1.1 NAQCC Sprint Wednesday night! by "NAQCC" va3rj Message
1.1 NAQCC Sprint Wednesday night! Sat Jan 12, 2013 9:04 am (PST) . Posted by: "NAQCC" va3rj NAQCC Sprint Wednesday night!

Our January sprint is this coming Wednesday evening local time (January 16, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Thursday January 17, 0130-0330Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201301.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX for 1st, 2nd and 3rd place finishers (New!). A Certificate for top score in the GAIN antenna category.

Prizes: Too many to list!! - check out the prizes page on our website.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6400+ members in: All 50 States - 9 VE Provinces - 90 Countries. Make it one of your New Year's resolutions and sign up on the NAQCC website today (http://naqcc.info/) to receive a handsome certificate, with your membership number on it, which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

Reply to sender . Reply to group . Reply via Web Post . All Messages (27) . Top ^ Visit Your Group > View All Topics > Create New Topic > 5 New Members >
We are making changes based on your feedback, Thank you ! Submit Feedback > The Yahoo! Groups Product Blog Check it out! > CHANGE SETTINGS > TERMS OF USE > UNSUBSCRIBE >

10218. MTR on 60 Metres (5 Mhz)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-16 19:12:06 UTC
From: paradoxpete.pdm@...
Topic: 10218 Message: 10218

A group member has kindly cut me the code to place my MTR on 5Mhz.
I received my TI Launchpad today, so will be in a position to flash it in the next few days.

I've been looking at the I/O filters and trying to calculate what is needed for the band change.
I've come up with some values for components but would be interested if anyone has a quick way to model the filters before I heat the soldering iron up.
The rig isn't the ideal test bed, so if someone has values that work at 5Mhz I'd be grateful to compare notes.

Regards

Pete
G4ISJ

10219. Re: [AT_Sprint] MTR on 60 Metres (5 Mhz)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-16 23:02:23 UTC
From: Steven Weber
Topic: 10218 Message: 10219

These are the values I came up with to put the Tribander on 60M, but are for producing 5 watts at 13.8V supply.

The PA side inductor value will likely need to be changed and the number of turns redone for a T30-2 core:

PA > 680p (20 turns on T37-2) 1200 p (20 turns T37-2 || 150 p) 680 p > ANT

As far as the receiver side I used 22 ufd inductors with 70 pfd trimmers. Since the trimmers on the MTR are only 30 p, pad approperately.

Steve KD1JV

>A group member has kindly cut me the code to place my MTR on 5Mhz.
> I received my TI Launchpad today, so will be in a position to flash it in
> the next few days.
>
> I've been looking at the I/O filters and trying to calculate what is
> needed for the band change.
> I've come up with some values for components but would be interested if
> anyone has a quick way to model the filters before I heat the soldering
> iron up.
> The rig isn't the ideal test bed, so if someone has values that work at
> 5Mhz I'd be grateful to compare notes.
>

10220. auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-17 03:39:44 UTC
From: charles
Topic: 10220 Message: 10220

there is an ats-4a on that well known auction site ... (not mine and I have no interest in the item...just reporting) ... 73 de chas ai4ot

10221. Re: [AT_Sprint] MTR on 60 Metres (5 Mhz)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-17 08:26:00 UTC
From: Colin Tuckley
Topic: 10218 Message: 10221

Quoting paradoxpete.pdm@...:

> A group member has kindly cut me the code to place my MTR on 5Mhz.
> I received my TI Launchpad today, so will be in a position to flash
> it in the next few days.

Since I suspect the code would be of interest to others please ask the author to post it to the ATSprint group files section. I suspect parts of it are applicable to other ATS rigs too.

> I've been looking at the I/O filters and trying to calculate what is
> needed for the band change.
> I've come up with some values for components but would be interested
> if anyone has a quick way to model the filters before I heat the
> soldering iron up.

Ditto, please let us know how you get on.

Colin G8TMV

10223. Re: [AT_Sprint] MTR on 60 Metres (5 Mhz)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-19 00:13:55 UTC
From: Peter Martin
Topic: 10218 Message: 10223

On Wed, Jan 16, 2013 at 11:02 PM, Steven Weber <steve.kd1jv@...>wrote:

> These are the values I came up with to put the Tribander on 60M, but are
> for
> producing 5 watts at 13.8V supply.
>
> The PA side inductor value will likely need to be changed and the number of
> turns redone for a T30-2 core:
>
> PA > 680p (20 turns on T37-2) 1200 p (20 turns T37-2 || 150 p) 680 p > ANT
>
> As far as the receiver side I used 22 ufd inductors with 70 pfd trimmers.
> Since the trimmers on the MTR are only 30 p, pad approperately.
>
> Steve KD1JV
>

Steve,
Many thanks.
I'll play around with those values.
I take it you mean 22uH inductors, not 22ufd!

Any news on a second run of MTRs.
It would probably be just as easy for me to build a new one for 80/60
rather than modify my 40/20 one!
Regards
Pete
G4ISJ

10224. Re: MTR on 60 Metres (5 Mhz)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-19 23:26:37 UTC
From: David
Topic: 10218 Message: 10224

Hi,
I have uploaded the source file into a folder in the MTR folder.
Regards, Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, Colin Tuckley wrote:
>
> Quoting paradoxpete.pdm@...:
>
> > A group member has kindly cut me the code to place my MTR on 5Mhz.
> > I received my TI Launchpad today, so will be in a position to flash
> > it in the next few days.
>
> Since I suspect the code would be of interest to others please ask the
> author to post it to the ATSprint group files section. I suspect parts
> of it are applicable to other ATS rigs too.
>
> > I've been looking at the I/O filters and trying to calculate what is
> > needed for the band change.
> > I've come up with some values for components but would be interested
> > if anyone has a quick way to model the filters before I heat the
> > soldering iron up.
>
> Ditto, please let us know how you get on.
>
> Colin G8TMV
>

10225. Re: [AT_Sprint] Re: MTR on 60 Metres (5 Mhz)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 10:17:42 UTC
From: f6ddv
Topic: 10218 Message: 10225

Hello to all
I am a beginner in how to modify the program to change the band on ATS 3A for example, I have a ATS3A.
Even if he can not make a lot of W, for example, replace the 80 m band claiming too long antenna cell by a shorter band.
I would have probably build a new small printed circuit board and I have no picture of the circuit to the positive burn another card.
And even if I wanted to make another just for testing, is that someone with that?
Regards to all for this new year 2013
jean-paul F6DDV
----- Original Message -----
From: David
To: AT_Sprint@yahoogroups.com
Sent: Sunday, January 20, 2013 12:26 AM
Subject: [AT_Sprint] Re: MTR on 60 Metres (5 Mhz)
Hi,
I have uploaded the source file into a folder in the MTR folder.
Regards, Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, Colin Tuckley wrote:
>
> Quoting paradoxpete.pdm@...:
>
> > A group member has kindly cut me the code to place my MTR on 5Mhz.
> > I received my TI Launchpad today, so will be in a position to flash
> > it in the next few days.
>
> Since I suspect the code would be of interest to others please ask the
> author to post it to the ATSprint group files section. I suspect parts
> of it are applicable to other ATS rigs too.
>
> > I've been looking at the I/O filters and trying to calculate what is
> > needed for the band change.
> > I've come up with some values for components but would be interested
> > if anyone has a quick way to model the filters before I heat the
> > soldering iron up.
>
> Ditto, please let us know how you get on.
>
> Colin G8TMV
>

10226. ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 17:14:07 UTC
From: Lee Hiers
Topic: 10226 Message: 10226

Wow...I didn't realize they were commanding this high a price!

http://www.ebay.com/itm/150979792403

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10227. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 17:44:27 UTC
From: Keith Hamilton
Topic: 10226 Message: 10227

I should have built a few for profit!
Keith N8CEP

Sent from my iPhone

On Jan 20, 2013, at 12:14 PM, Lee Hiers <lee.hiers@...> wrote:

> Wow...I didn't realize they were commanding this high a price!
>
>
> http://www.ebay.com/itm/150979792403
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to
http://www.aa4ga.com/p/qrp-dxcc.html for more info!
>
>
>

10228. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 19:00:44 UTC
From: John Evans - N0HJ
Topic: 10226 Message: 10228

I'd like to see a new run of ATS-4 kits for sure, but I know Steve is
busy and I hope his Hendrick's kits are yielding some additional income.

john - n0hj

On 1/20/2013 10:44 AM, Keith Hamilton wrote:
> I should have built a few for profit!
> Keith N8CEP
>
> Sent from my iPhone
>

10229. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 19:15:20 UTC
From: Randy Moore
Topic: 10226 Message: 10229

Holy Toledo! I'd sell mine for that!

On Jan 20, 2013, at 11:14 AM, Lee Hiers <lee.hiers@...> wrote:

> Wow...I didn't realize they were commanding this high a price!
>
>
> http://www.ebay.com/itm/150979792403
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to
http://www.aa4ga.com/p/qrp-dxcc.html for more info!
>
>
>

10230. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 19:17:07 UTC
From: Chris Fowler
Topic: 10226 Message: 10230

On 01/20/2013 12:14 PM, Lee Hiers wrote:
>
>
> Wow...I didn't realize they were commanding this high a price!
>
> http://www.ebay.com/itm/150979792403
>

I've not used mine in over a year and am thinking of putting it up on
the bay too.

73,
Chris k4fh

10231. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 19:37:29 UTC
From: Keith Hamilton
Topic: 10226 Message: 10231

Yes! A new run of ATS-4 kits woul really be welcome!

Keith N8CEP

On Jan 20, 2013, at 2:00 PM, John Evans - N0HJ <jaevans@...> wrote:

> I'd like to see a new run of ATS-4 kits for sure, but I know Steve is busy and I hope his Hendrick's kits are yielding some additional income.
>
> john - n0hj
>
> On 1/20/2013 10:44 AM, Keith Hamilton wrote:
>>
>> I should have built a few for profit!
>> Keith N8CEP
>>
>> Sent from my iPhone
>
>

10232. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 20:29:32 UTC
From: Mike-WE0H
Topic: 10226 Message: 10232

Maybe Steve could let Hendrick's QRP sell the kit? The 3B would even suffice ;)

Mike-WE0H

10233. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 22:13:08 UTC
From: Randy Moore
Topic: 10226 Message: 10233

Way off topic, but I just noticed in the bid history for this that all the bids have exactly the same date/time. Is this some kind of funny-business?

73,
Randy, KS4L

On Jan 20, 2013, at 11:14 AM, Lee Hiers <lee.hiers@gmail.com> wrote:

> Wow...I didn't realize they were commanding this high a price!
>
>
> http://www.ebay.com/itm/150979792403
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to
http://www.aa4ga.com/p/qrp-dxcc.html for more info!
>
>
>

10234. RE: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 22:14:16 UTC
From: Dale Putnam
Topic: 10226 Message: 10234

yes!!
Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: wrmoore47@...
Date: Sun, 20 Jan 2013 16:13:08 -0600
Subject: Re: [AT_Sprint] ATS-4 on eBay

Way off topic, but I just noticed in the bid history for this that all the bids have exactly the same date/time. Is this some kind of funny-business?
73,
Randy, KS4L
On Jan 20, 2013, at 11:14 AM, Lee Hiers <lee.hiers@...> wrote:

Wow...I didn't realize they were commanding this high a price!
http://www.ebay.com/itm/150979792403
73 de Lee--

Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to
http://www.aa4ga.com/p/qrp-dxcc.html for more info!

10235. RE: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 22:14:47 UTC
From: Dale Putnam
Topic: 10226 Message: 10235

YES!!!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: wrmoore47@...
Date: Sun, 20 Jan 2013 16:13:08 -0600
Subject: Re: [AT_Sprint] ATS-4 on eBay

Way off topic, but I just noticed in the bid history for this that all the bids have exactly the same date/time. Is this some kind of funny-business?
73,
Randy, KS4L
On Jan 20, 2013, at 11:14 AM, Lee Hiers <lee.hiers@...> wrote:

Wow...I didn't realize they were commanding this high a price!
http://www.ebay.com/itm/150979792403
73 de Lee--

Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to
http://www.aa4ga.com/p/qrp-dxcc.html for more info!

10236. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 22:20:28 UTC
From: Barry N1EU
Topic: 10226 Message: 10236

On Sun, Jan 20, 2013 at 10:13 PM, Randy Moore <wrmoore47@...> wrote:

> **
>
>
> Way off topic, but I just noticed in the bid history for this that all the
> bids have exactly the same date/time. Is this some kind of funny-business?
>
> 73,
> Randy, KS4L
>
>
Randy, I see all different date/times when I view it.

73,
Barry N1EU

10237. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 22:29:09 UTC
From: Scott Zastoupil
Topic: 10226 Message: 10237

One of the guys is very likely using a sniper application/webservice judging by the 8 to 18 second rebid interval. Dirty, but it works.

http://en.wikipedia.org/wiki/Auction_sniping

Scott, KB0KFX

From: Barry N1EU <n1eu.barry@...>
To: AT_Sprint@yahoogroups.com
Sent: Sunday, January 20, 2013 4:20 PM
Subject: Re: [AT_Sprint] ATS-4 on eBay

On Sun, Jan 20, 2013 at 10:13 PM, Randy Moore <wrmoore47@...> wrote:

>
>Way off topic, but I just noticed in the bid history for this that all the bids have exactly the same date/time. Is this some kind of funny-business?
>
>
>73,
>Randy, KS4L
>
>
Randy, I see all different date/times when I view it.

73,
Barry N1EU

10238. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 22:54:47 UTC
From: Lee Hiers
Topic: 10226 Message: 10238

On Sun, Jan 20, 2013 at 5:20 PM, Barry N1EU <n1eu.barry@...> wrote:

Randy, I see all different date/times when I view it.
>

Same here...the only thing that looks funny is the 499.98 bid...that's just
dumb bidding though.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10239. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 23:26:42 UTC
From: cloud runner
Topic: 10226 Message: 10239

They don't have the same date and time ... close ... what you see is an ignorant bidder who doesn't understand how ebay works, and he bid more than once in rapid succession of course being outbid automatically by a higher bid. I am amazed how many people still don't understand bidding on ebay!

fred - kt5x

Way off topic, but I just noticed in the bid history for this that all the bids have exactly the same date/time. Is this some kind of funny-business?

73,
Randy, KS4L

On Jan 20, 2013, at 11:14 AM, Lee Hiers <lee.hiers@...> wrote:

Wow...I didn't realize they were commanding this high a price!

http://www.ebay.com/itm/150979792403

73 de Lee
--
Lee Hiers, AA4GA

www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to
http://www.aa4ga.com/p/qrp-dxcc.html for more info!

10240. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 23:28:23 UTC
From: cloud runner
Topic: 10226 Message: 10240

No, he just doesn't understand that you bid once, your highest offer, and forget it. He bid over and over, until reaching his highest bid, and probably thought somebody was watching him and bid against him. not.

fd

One of the guys is very likely using a sniper application/webservice judging by the 8 to 18 second rebid interval. Dirty, but it works.

http://en.wikipedia.org/wiki/Auction_sniping

Scott, KB0KFX

.

10241. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 23:31:58 UTC
From: Randy Moore
Topic: 10226 Message: 10241

Well, I re-looked at this. Earlier I checked with my iPhone _bay app. Just now I looked at the site directly and all the bid times are different. Must be a bug in the app. Sorry...

On Jan 20, 2013, at 4:14 PM, Dale Putnam <daleputnam@...> wrote:

> YES!!!
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> To: AT_Sprint@...m
> From: wrmoore47@...
> Date: Sun, 20 Jan 2013 16:13:08 -0600
> Subject: Re: [AT_Sprint] ATS-4 on eBay
>
>
> Way off topic, but I just noticed in the bid history for this that all the bids have exactly the same date/time. Is this some kind of funny-business?
>
> 73,
> Randy, KS4L
>
> On Jan 20, 2013, at 11:14 AM, Lee Hiers <lee.hiers@...> wrote:
>
>
> Wow...I didn't realize they were commanding this high a price!
>
>
> http://www.ebay.com/itm/150979792403
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to http://www.aa4ga.com/p/qrp-dxcc.html for more info!
>
>
>

>
>

10242. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 23:57:47 UTC
From: Colin Evans
Topic: 10226 Message: 10242

My Android phone was also showing the same time for bids, obviously a bug as you say.

Gosh I could just do with a few ATS4s to sell, I would be able to buy myself a KX3 then! I guess 3 would just about do it!

It makes me wonder how much an MTR would fetch. I don't think I'll ever part with #131 though, I love that rig so much!
On Jan 20, 2013 11:31 PM, "Randy Moore" <wrmoore47@...> wrote:

> **
>
>
> Well, I re-looked at this. Earlier I checked with my iPhone _bay app.
> Just now I looked at the site directly and all the bid times are different.
> Must be a bug in the app. Sorry...
>
> On Jan 20, 2013, at 4:14 PM, Dale Putnam <daleputnam@...> wrote:
>
>
>
> YES!!!
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> ----------
> To: AT_Sprint@yahoogroups.com
> From: wrmoore47@...
> Date: Sun, 20 Jan 2013 16:13:08 -0600
> Subject: Re: [AT_Sprint] ATS-4 on eBay
>
>
> Way off topic, but I just noticed in the bid history for this that all
> the bids have exactly the same date/time. Is this some kind of
> funny-business?
>
> 73,
> Randy, KS4L
>
> On Jan 20, 2013, at 11:14 AM, Lee Hiers <lee.hiers@...> wrote:

>
>
>
> Wow...I didn't realize they were commanding this high a price!
>
> http://www.ebay.com/itm/150979792403
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to *
> http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
>
>
>
>
>
>

10243. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-21 00:05:22 UTC
From: Lee Hiers
Topic: 10226 Message: 10243

Ain't that the truth!

On Sun, Jan 20, 2013 at 6:26 PM, cloud runner <just.one.hill@...>wrote:

> I am amazed how many people still don't understand bidding on ebay!
>

10244. Re: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-21 02:15:18 UTC
From: Gil WA5YKK
Topic: 10226 Message: 10244

Without even looking at eBay, I can just see the "bidding wars" that happen, I've encountered the same problem with a few items, too. The only people I really buy from are "buy now", and a firm price. Too many have been time wasting scams, one overseas chap actually took the price of a vintage stereo receiver beyond belief on price, so I quit wasting time.
When you look at the number of bidders, the time and price, you know a scam is being put on the whole thing.

Makes me wonder if "ham radio" items are even bought by ham radio licensees, or just traders who make enough to pay the bills every month.

Time to go look up my kits, decide on a time factor.

73's
Gil WA5YKK

On 1/20/2013 5:31 PM, Randy Moore wrote:
> Well, I re-looked at this. Earlier I checked with my iPhone _bay app.
> Just now I looked at the site directly and all the bid times are
> different. Must be a bug in the app. Sorry...
>
> On Jan 20, 2013, at 4:14 PM, Dale Putnam <daleputnam@...
> <mailto:daleputnam@...>> wrote:
>
>> YES!!!
>>
>> Have a great day,
>>
>>
>> --... ...-- Dale - WC7S in Wy
>>
>>
>>
>>
>> ---
>> To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint@yahoogroups.com>
>> From: wrmoore47@... <mailto:wrmoore47@...>
>> Date: Sun, 20 Jan 2013 16:13:08 -0600
>> Subject: Re: [AT_Sprint] ATS-4 on eBay
>>
>> Way off topic, but I just noticed in the bid history for this that
>> all the bids have exactly the same date/time. Is this some kind of
>> funny-business?
>>
>> 73,

>> Randy, KS4L
>>
>> On Jan 20, 2013, at 11:14 AM, Lee Hiers <lee.hiers@...
>> <mailto:lee.hiers@...>> wrote:
>>
>> Wow...I didn't realize they were commanding this high a price!
>>
>>
>> http://www.ebay.com/itm/150979792403
>>
>> 73 de Lee
>> --
>> Lee Hiers, AA4GA
>> www.aa4ga.com <http://www.aa4ga.com>
>>
>> Submit your totals to the unofficial QRP DXCC standings - go to
>> _http://www.aa4ga.com/p/qrp-dxcc.html_ for more info!
>>
>>
>>
>>
>

10245. Ultralight 20m EFHW Antenna Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 04:57:43 UTC
From: steve_wg0at
Topic: 10245 Message: 10245

Still dialing in my SOTAlite rig for upcoming season. Still need to convert my purchased MTR 20/40 to a 20/30 but meanwhile I shrunk this impedance matching network idea (link below) to fit into a plastic floss case. Haven't had a chance to field test it yet but my analyzer sure likes it! Hope it actually plays well on an upcoming SOTA this Friday! Thinking of adding a clip on section for 30m once I get my MTR converted to 30m.

EFHW design plans: http://www.earchi.org/92011endfedfiles/Endfed20.pdf

Some pics: (click on "Show Info" to view captions)
http://www.flickr.com/photos/goathiker/sets/72157632572757726/show/with/8406257719/

73, Steve/wGOAT

10246. Re: [AT_Sprint] Ultralight 20m EFHW Antenna Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 05:03:16 UTC
From: Mike-WE0H
Topic: 10245 Message: 10246

Is that #20 Teflon wire? Neat setup :)

Mike-WE0H

steve_wg0at wrote:
>
> Still dialing in my SOTAlite rig for upcoming season. Still need to
> convert my purchased MTR 20/40 to a 20/30 but meanwhile I shrunk this
> impedance matching network idea (link below) to fit into a plastic
> floss case. Haven't had a chance to field test it yet but my analyzer
> sure likes it! Hope it actually plays well on an upcoming SOTA this
> Friday! Thinking of adding a clip on section for 30m once I get my MTR
> converted to 30m.
>
> EFHW design plans: http://www.earchi.org/92011endfedfiles/Endfed20.pdf
>
> Some pics: (click on "Show Info" to view captions)
> http://www.flickr.com/photos/goathiker/sets/72157632572757726/show/with/8406257719/
>
> 73, Steve/wGOAT
>

10247. Re: [AT_Sprint] Ultralight 20m EFHW Antenna Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 12:56:27 UTC
From: Randy Moore
Topic: 10245 Message: 10247

Very nice Steve!

73,
Randy, KS4L

On Jan 22, 2013, at 10:57 PM, "steve_wg0at" <qrp.wg0at@...> wrote:

> Still dialing in my SOTAlite rig for upcoming season. Still need to convert my purchased MTR 20/40 to a 20/30 but meanwhile I shrunk this impedance matching network idea (link below) to fit into a plastic floss case. Haven't had a chance to field test it yet but my analyzer sure likes it! Hope it actually plays well on an upcoming SOTA this Friday! Thinking of adding a clip on section for 30m once I get my MTR converted to 30m.
>
> EFHW design plans: http://www.earchi.org/92011endfedfiles/Endfed20.pdf
>
> Some pics: (click on "Show Info" to view captions)
> http://www.flickr.com/photos/goathiker/sets/72157632572757726/show/with/8406257719/
>
> 73, Steve/wGOAT
>
>

10248. Re: Ultralight 20m EFHW Antenna Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 13:20:41 UTC
From: bill_w4zv
Topic: 10245 Message: 10248

Hi Steve,

Minor correction to your schematic. The impedance transformation is 1:81 because it's the square of the 9:1 turns ratio, or 50:4050 ohms. EFHWs have a very high impedance.

Nice job of construction and you always have a good signal in NC from the summits.

73, Bill

--- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
>
> Still dialing in my SOTAlite rig for upcoming season. Still need to convert my purchased MTR 20/40 to a 20/30 but meanwhile I shrunk this impedance matching network idea (link below) to fit into a plastic floss case. Haven't had a chance to field test it yet but my analyzer sure likes it! Hope it actually plays well on an upcoming SOTA this Friday! Thinking of adding a clip on section for 30m once I get my MTR converted to 30m.
>
> EFHW design plans: http://www.earchi.org/92011endfedfiles/Endfed20.pdf
>
> Some pics: (click on "Show Info" to view captions)
> http://www.flickr.com/photos/goathiker/sets/72157632572757726/show/with/8406257719/
>
> 73, Steve/wGOAT
>

10249. (no subject)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 15:16:30 UTC
From: Jackie Russell
Topic: 10249 Message: 10249

I've been away from the group for a while. Is the ATS4B available again? Is there any plan for another run? What is the kit price?

Any help will be appreciated. I own the ATS3a and love it.

AC4EH

Jackie

10250. RE: [AT_Sprint] ATS-4 on eBay

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-20 22:48:09 UTC
From: Mike Crownover
Topic: 10226 Message: 10250

Sniping is usually used in the last few seconds. Probably someone has set their max price and each bid up is outbid until the max price is reached.

Mike AD5A

From: Scott Zastoupil [mailto:szastoupil@...]
Sent: Sunday, January 20, 2013 4:29 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] ATS-4 on eBay

One of the guys is very likely using a sniper application/webservice judging by the 8 to 18 second rebid interval. Dirty, but it works.

http://en.wikipedia.org/wiki/Auction_sniping

Scott, KB0KFX

From: Barry N1EU <n1eu.barry@...>
To: AT_Sprint@yahoogroups.com
Sent: Sunday, January 20, 2013 4:20 PM
Subject: Re: [AT_Sprint] ATS-4 on eBay

On Sun, Jan 20, 2013 at 10:13 PM, Randy Moore <wrmoore47@...> wrote:

Way off topic, but I just noticed in the bid history for this that all the bids have exactly the same date/time. Is this some kind of funny-business?

73,
Randy, KS4L

Randy, I see all different date/times when I view it.

73,
Barry N1EU

10251. Re: Ultralight 20m EFHW Antenna Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 15:26:28 UTC
From: steve_wg0at
Topic: 10245 Message: 10251

Thanks Bill! Yep, Disregard the pics and drawing for the 9:1!

It's only the last 4-pics in that set that pertain to my post here. My bad. That set up was for KX3 with it's superb ATU where I was just trying to reduce the high impedance of the EF to ~500ohms or something KX3's ATU could easily handle!

But for my MTR I wanted 50ohms of course and built a mono-band 20m EFHW 'fixed' tuner ...it does drop the 4k to 50ohms as seen by the analyzer pics! Not my design but just my reconfiguring to fit it into the smaller/lighter floss case. 2-different setups entirely ...Sorry for any confusion.

Cheers, Steve wGOAT

--- In AT_Sprint@yahoogroups.com, "bill_w4zv" wrote:
>
> Hi Steve,
>
> Minor correction to your schematic. The impedance transformation is 1:81 because it's the square of the 9:1 turns ratio, or 50:4050 ohms. EFHWs have a very high impedance.
>
> Nice job of construction and you always have a good signal in NC from the summits.
>
> 73, Bill
>
> --- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
> >
> > Still dialing in my SOTAlite rig for upcoming season. Still need to convert my purchased MTR 20/40 to a 20/30 but meanwhile I shrunk this impedance matching network idea (link below) to fit into a plastic floss case. Haven't had a chance to field test it yet but my analyzer sure likes it! Hope it actually plays well on an upcoming SOTA this Friday! Thinking of adding a clip on section for 30m once I get my MTR converted to 30m.
> >
> > EFHW design plans: http://www.earchi.org/92011endfedfiles/Endfed20.pdf
> >
> > Some pics: (click on "Show Info" to view captions)
> > http://www.flickr.com/photos/goathiker/sets/72157632572757726/show/with/8406257719/
> >
> > 73, Steve/wGOAT
> >
>

10252. Re: Ultralight 20m EFHW Antenna Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 15:39:01 UTC
From: steve_wg0at
Topic: 10245 Message: 10252

This should fix it! I pull those pics into a separate slide set named 'MTR 20m EFHW'
http://www.flickr.com/photos/goathiker/sets/72157632590116589/show/

And yes the wire is Teflon I find the goats don't pefer it as much as the plastic or rubber coated wire. Nor do they like the pepper spray coated coax ...when remember to that. ;-)
...wGOAT
--- In AT_Sprint@...m, "steve_wg0at" wrote:
>
> Thanks Bill! Yep, Disregard the pics and drawing for the 9:1!
>
> It's only the last 4-pics in that set that pertain to my post here. My bad. That set up was for KX3 with it's superb ATU where I was just trying to reduce the high impedance of the EF to ~500ohms or something KX3's ATU could easily handle!
>
> But for my MTR I wanted 50ohms of course and built a mono-band 20m EFHW 'fixed' tuner ...it does drop the 4k to 50ohms as seen by the analyzer pics! Not my design but just my reconfiguring to fit it into the smaller/lighter floss case. 2-different setups entirely ...Sorry for any confusion.
>
> Cheers, Steve wGOAT
>
>
> --- In AT_Sprint@yahoogroups.com, "bill_w4zv" wrote:
> >
> > Hi Steve,
> >
> > Minor correction to your schematic. The impedance transformation is 1:81 because it's the square of the 9:1 turns ratio, or 50:4050 ohms. EFHWs have a very high impedance.
> >
> > Nice job of construction and you always have a good signal in NC from the summits.
> >
> > 73, Bill
> >
> > --- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
> > >
> > > Still dialing in my SOTAlite rig for upcoming season. Still need to convert my purchased MTR 20/40 to a 20/30 but meanwhile I shrunk this impedance matching network idea (link below) to fit into a plastic floss case. Haven't had a chance to field test it yet but my analyzer sure likes it! Hope it actually plays well on an upcoming SOTA this Friday! Thinking of adding a clip on section for 30m once I get my MTR converted to 30m.
> > >
> > > EFHW design plans: http://www.earchi.org/92011endfedfiles/Endfed20.pdf
> > >
> > > Some pics: (click on "Show Info" to view captions)
> > > http://www.flickr.com/photos/goathiker/sets/72157632572757726/show/with/8406257719/

> > >
> > > 73, Steve/wGOAT
> > >
> >
>

10253. Re: Ultralight 20m EFHW Antenna Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 15:56:54 UTC
From: Reed White
Topic: 10245 Message: 10253

I have used (and still use) an end-fed Zepp technique similar to the posted design, and it works well. Some minor differences:

(1) I switched the location of the inductor and capacitor to reduce the possibility that a static charge or other voltage getting to the antenna would damage the final transistor. Maybe there is a better reason for doing it the way you did it -- if so, it wold be interesting to know.

(2) I used an air-core inductor, which I believe might have slightly lower losses. However, the proper toroid is probably good enough, and it certainly saves space.

Thanks for posting your detailed design info.

... Reed K7FLY

10254. MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 16:59:43 UTC
From: Steven
Topic: 10254 Message: 10254

It's taken a bit longer to get the case nailed down then expected. The tenative shipping date (from the factory) is now March 15th.

At 4.4 oz, the case is also a bit heavier then I expected, mostly due to using steel instead of aluminum for the top piece. But this makes for one really rugged cabinet!

I'll have 100 cases available at $20 for those who want the new offical, bullet proof box for thier existing MTR.

I'll start accepting orders around the end of Febuary, to allow time for your check or MO to arrive and be able to ship the kit just as soon as the cabinets arrive from Ten-Tec.

That's right check or MO, I will no longer accept payment via paypal except for DX orders. We'll figure out the details of how that will work later.

72, Steve KD1JV

10255. Re: Ultralight 20m EFHW Antenna Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 17:01:50 UTC
From: steve_wg0at
Topic: 10245 Message: 10255

Reed ...I was just repackaging a given design hadn't given any thought about the static issue? Your's might be the wiser choice? And I went with toroid design simply cause it saves space and was a little easier to package for trail use. wGOAT

--- In AT_Sprint@yahoogroups.com, Reed White wrote:
>
>
> I have used (and still use) an end-fed Zepp technique similar to the
> posted design, and it works well. Some minor differences:
>
> (1) I switched the location of the inductor and capacitor to reduce the
> possibility that a static charge or other voltage getting to the antenna
> would damage the final transistor. Maybe there is a better reason for
> doing it the way you did it -- if so, it wold be interesting to know.
>
> (2) I used an air-core inductor, which I believe might have slightly
> lower losses. However, the proper toroid is probably good enough, and
> it certainly saves space.
>
> Thanks for posting your detailed design info.
>
> ... Reed K7FLY
>

10256. Re: [AT_Sprint] MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 17:40:58 UTC
From: Ben Pharr
Topic: 10254 Message: 10256

What will the price be for MTR and enclosure?

Thanks,
Ben
WF5N

On Wed, Jan 23, 2013 at 10:59 AM, Steven <steve.kd1jv@...> wrote:

> It's taken a bit longer to get the case nailed down then expected. The
> tenative shipping date (from the factory) is now March 15th.
>
> At 4.4 oz, the case is also a bit heavier then I expected, mostly due to
> using steel instead of aluminum for the top piece. But this makes for one
> really rugged cabinet!
>
> I'll have 100 cases available at $20 for those who want the new offical,
> bullet proof box for thier existing MTR.
>
> I'll start accepting orders around the end of Febuary, to allow time for
> your check or MO to arrive and be able to ship the kit just as soon as the
> cabinets arrive from Ten-Tec.
>
> That's right check or MO, I will no longer accept payment via paypal
> except for DX orders. We'll figure out the details of how that will work
> later.
>
> 72, Steve KD1JV
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

10257. Re: [AT_Sprint] MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 17:44:09 UTC
From: VE4JWC - John
Topic: 10254 Message: 10257

Can't wait! I have my "new radio money" ready and waiting.

Thanks for all your hard work!

John C - VE4JWC

On 1/23/2013 10:59 AM, Steven wrote:
> It's taken a bit longer to get the case nailed down then expected. The tenative shipping date (from the factory) is now March 15th.
>
> At 4.4 oz, the case is also a bit heavier then I expected, mostly due to using steel instead of aluminum for the top piece. But this makes for one really rugged cabinet!
>
> I'll have 100 cases available at $20 for those who want the new offical, bullet proof box for thier existing MTR.
>
> I'll start accepting orders around the end of Febuary, to allow time for your check or MO to arrive and be able to ship the kit just as soon as the cabinets arrive from Ten-Tec.
>
> That's right check or MO, I will no longer accept payment via paypal except for DX orders. We'll figure out the details of how that will work later.
>
> 72, Steve KD1JV
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>
>
>

10258. Re: [AT_Sprint] MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 18:33:35 UTC
From: Keith Hamilton
Topic: 10254 Message: 10258

Wonderful news! Thanks Steve!

On Jan 23, 2013, at 11:59 AM, "Steven" <steve.kd1jv@...> wrote:

> It's taken a bit longer to get the case nailed down then expected. The tenative shipping date (from the factory) is now March 15th.
>
> At 4.4 oz, the case is also a bit heavier then I expected, mostly due to using steel instead of aluminum for the top piece. But this makes for one really rugged cabinet!
>
> I'll have 100 cases available at $20 for those who want the new offical, bullet proof box for thier existing MTR.
>
> I'll start accepting orders around the end of Febuary, to allow time for your check or MO to arrive and be able to ship the kit just as soon as the cabinets arrive from Ten-Tec.
>
> That's right check or MO, I will no longer accept payment via paypal except for DX orders. We'll figure out the details of how that will work later.
>
> 72, Steve KD1JV
>
>

10259. Re: [AT_Sprint] MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 18:39:09 UTC
From: Hank Greeb
Topic: 10254 Message: 10259

Hope you didn't put many extra holes in the case with all those nails. :)

Congrats on the update!

72/73 de n8xx Hg
QRP >99.44% of the time

On 1/23/2013 11:59 AM, Steven wrote:
> It's taken a bit longer to get the case nailed down then expected.
> <snip>

10260. Re: [AT_Sprint] MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 19:02:44 UTC
From: Phil Townsend Lontz
Topic: 10254 Message: 10260

I Sir, am, all a twitter!!!
Got your money right here!
Thank You for the work Steve!

Phil
Santa Fe

On Jan 23, 2013, at 11:39 AM, Hank Greeb <n8xx@arrl.org> wrote:

> Hope you didn't put many extra holes in the case with all those nails. :)
>
> Congrats on the update!
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>
> On 1/23/2013 11:59 AM, Steven wrote:
>> It's taken a bit longer to get the case nailed down then expected.
>> <snip>
>
>
>

10261. Re: MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-23 21:36:46 UTC
From: k1thp
Topic: 10254 Message: 10261

Great news Steve! Will they be finished in a particular color or silk screened? Or will there be a decal option such as used by Hendricks Kits?

K1THP Dave
--- In AT_Sprint@yahoogroups.com, "Steven" wrote:
>
> It's taken a bit longer to get the case nailed down then expected. The tenative shipping date (from the factory) is now March 15th.
>
> At 4.4 oz, the case is also a bit heavier then I expected, mostly due to using steel instead of aluminum for the top piece. But this makes for one really rugged cabinet!
>
> I'll have 100 cases available at $20 for those who want the new offical, bullet proof box for thier existing MTR.
>
> I'll start accepting orders around the end of Febuary, to allow time for your check or MO to arrive and be able to ship the kit just as soon as the cabinets arrive from Ten-Tec.
>
> That's right check or MO, I will no longer accept payment via paypal except for DX orders. We'll figure out the details of how that will work later.
>
> 72, Steve KD1JV
>

10262. Re: [AT_Sprint] MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-24 00:34:57 UTC
From: Steven Weber
Topic: 10254 Message: 10262

$115.00 most likely.

What will the price be for MTR and enclosure?

10263. Re: [AT_Sprint] Re: MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-24 00:44:40 UTC
From: Steven Weber
Topic: 10254 Message: 10263

> Great news Steve! Will they be finished in a particular color or silk
> screened? Or will there be a decal option such as used by Hendricks Kits?
>

Front, top and back will be light blue with white silk screen on top. Sides and bottom are black.

10264. RE: [AT_Sprint] Re: MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-24 00:46:41 UTC
From: Dale Putnam
Topic: 10254 Message: 10264

We would pre post checks.. if that is allowed?

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Wed, 23 Jan 2013 19:44:40 -0500
Subject: Re: [AT_Sprint] Re: MTR progress update

> Great news Steve! Will they be finished in a particular color or silk

> screened? Or will there be a decal option such as used by Hendricks Kits?

>

Front, top and back will be light blue with white silk screen on top. Sides

and bottom are black.

10265. Re: MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-24 02:48:40 UTC
From: k1thp
Topic: 10254 Message: 10265

Nice color combo. Much better than my butchered Altoids tin painted with a Heathkit type dark green with black lettering that can't be read even in daylight.

Dave K1THP

--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
>
> > Great news Steve! Will they be finished in a particular color or silk
> > screened? Or will there be a decal option such as used by Hendricks Kits?
> >
>
> Front, top and back will be light blue with white silk screen on top. Sides
> and bottom are black.
>

10266. Re:ats-3a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-24 03:22:04 UTC
From: Arthur Ripple
Topic: 10266 Message: 10266

Anyone interested in an ATS-3A unit mounted in a built proof box See my add on e-ham listed under QRP Thanks Arthur NS7E 952-758-2421 arthurripple@...

10267. Re: [AT_Sprint] ats-3a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-24 03:42:53 UTC
From: Mike-WE0H
Topic: 10266 Message: 10267

Can't see the listing. How much and details please. Your just on the other side of the big city from me.

Thank you,

Mike-WE0H

10268. Re: Ultralight 20m EFHW Antenna Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-24 03:49:16 UTC
From: steve_wg0at
Topic: 10245 Message: 10268

Got out for hike today to test the antenna ...worked good with some solid signal reports from both coast and Canada.

http://www.flickr.com/photos/goathiker/sets/72157632590116589/show/
Click "Show Info" for captions

Cheers, Steve wGOAT
--- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
>
> Still dialing in my SOTAlite rig for upcoming season. Still need to convert my purchased MTR 20/40 to a 20/30 but meanwhile I shrunk this impedance matching network idea (link below) to fit into a plastic floss case. Haven't had a chance to field test it yet but my analyzer sure likes it! Hope it actually plays well on an upcoming SOTA this Friday! Thinking of adding a clip on section for 30m once I get my MTR converted to 30m.
>
> EFHW design plans: http://www.earchi.org/92011endfedfiles/Endfed20.pdf
>
> Some pics: (click on "Show Info" to view captions)
> http://www.flickr.com/photos/goathiker/sets/72157632572757726/show/with/8406257719/
>
> 73, Steve/wGOAT
>

10269. ATS-3A

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-24 04:03:33 UTC
From: wa2ohf
Topic: 841 Message: 10269

Anyone interested in an ATS-3A unit mounted in a built proof box See my add on e-ham listed under QRP Thanks Arthur NS7E 952-758-2421 arthurripple@gnail.com

10270. Re: Ultralight 20m EFHW Antenna Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-24 20:20:46 UTC
From: steve_wg0at
Topic: 10245 Message: 10270

Forgot to mention my efforts yesterday were almost for not when unpacked my MTR I noticed one of the slide switches was busted clean off! And the last time I use the rig was 40m! I was aiming to get on 20m ...uh-oh? Forgot a knife so car keys to the rescue. Using the point of a key I was able to slide the switch to 20m position ..Whew!

And NO Rooster didn't step on my MTR! I think something got sideways in my pack and broke it off??

Does anyone have an extra slide switch in their spare parts? Thanks, Steve wGOAT

--- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
>
> Got out for hike today to test the antenna ...worked good with some solid signal reports from both coast and Canada.
>
> http://www.flickr.com/photos/goathiker/sets/72157632590116589/show/
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> Cheers, Steve wGOAT
> --- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
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> > Still dialing in my SOTAlite rig for upcoming season. Still need to convert my purchased MTR 20/40 to a 20/30 but meanwhile I shrunk this impedance matching network idea (link below) to fit into a plastic floss case. Haven't had a chance to field test it yet but my analyzer sure likes it! Hope it actually plays well on an upcoming SOTA this Friday! Thinking of adding a clip on section for 30m once I get my MTR converted to 30m.
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> > http://www.flickr.com/photos/goathiker/sets/72157632572757726/show/with/8406257719/
> >
> > 73, Steve/wGOAT
> >
>

10271. Re: MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-24 22:26:42 UTC
From: k1thp
Topic: 10254 Message: 10271

One additional question. How do you handle the band combos other than 40 and 20 Meters?
Dave K1THP

--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
>
> > Great news Steve! Will they be finished in a particular color or silk
> > screened? Or will there be a decal option such as used by Hendricks Kits?
> >
>
> Front, top and back will be light blue with white silk screen on top. Sides
> and bottom are black.
>

10272. FOX?? YES FOXii!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-24 23:13:40 UTC
From: Dale Putnam
Topic: 10272 Message: 10272

We have a volunteer.. I got to checking.. and sure enough.. Rick NK9G has a partner.. so there will be two FOXii running
and slinking around in the 80 acre woods.. somewhere between the two trees marked 3550 and 3570...
hiding and slip sliding around... handing out all the pelts possible..

so we are on ...

Sorry for the late announcement.. time gets past so fast... it's just a good thing I checked...
Good luck to each of you, and may the Props be Ever in OUR Favor!!!

oh.. the other volunteer?? I checked... it's me.

Good Hunting! Find me if you can.. I've got a new temp antenna up.. this time in 50 mph wind... but the temp is 53F..
So.. maybe it will be a 50/50 antenna?

Have a great day,

--... ...--
Dale - WC7S in Wy

10273. Re: MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-25 12:13:25 UTC
From: n1rx
Topic: 10254 Message: 10273

I would assume by printing your own label and sticking it over the incorrect band marking... 8-)
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "k1thp" wrote:
>
> One additional question. How do you handle the band combos other than 40 and 20 Meters?
> Dave K1THP
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
> >
> > > Great news Steve! Will they be finished in a particular color or silk
> > > screened? Or will there be a decal option such as used by Hendricks Kits?
> > >
> >
> > Front, top and back will be light blue with white silk screen on top. Sides
> > and bottom are black.
> >
>

10274. Re: MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-25 14:59:56 UTC
From: bevcomm
Topic: 10254 Message: 10274

If we read the manual this should not be a problem !

Arthur NS7E

10275. Re: [AT_Sprint] Re: MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-25 18:15:24 UTC
From: Steven Weber
Topic: 10254 Message: 10275

> I would assume by printing your own label and sticking it over the
> incorrect band marking... 8-)

The switches are just labeled "BAND". I could add a couple of white boxes on either side of one of the switches you could write on.

Steve KD1JV

10276. 80/160 M rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-25 18:40:05 UTC
From: Hank Greeb
Topic: 10254 Message: 10276

Steven:

Doesthe progress with the MTR mean that you'll be getting back to your earlier project of a 160/80 meter rig?

I'm waiting on pinzandneedles for that one. I'd LOVE to be able to run with one of your rigs in the CQ 160 or ARRL 160 contest!

72/73 de n8xx Hg
QRP >99.44% of the time

10277. MTR Going on 3rd SOTA w/9vdc Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-26 00:45:58 UTC
From: steve_wg0at
Topic: 10277 Message: 10277

Today's Summits on the Air (SOTA) activation on Peak 10650 (10,650ft) is the third time I've used the same 9vdc battery (each activation averages about 40minutes of operating). 3w into 20m EFHW (antenna du jour) did us justice!

My last SOTA for a while! Next activation is on a beach in Barbados as 8P9RT! Weeh! Woohoo! ...starting 1/30/13

http://www.flickr.com/photos/goathiker/sets/72157632612504038/show/ pic.twitter.com/Q8n0Ojx

Cheers, Steve wGOAT

10278. Re: [AT_Sprint] MTR Going on 3rd SOTA w/9vdc Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-26 01:38:06 UTC
From: Lee Hiers
Topic: 10277 Message: 10278

9v alkaline?

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

On Fri, Jan 25, 2013 at 7:45 PM, steve_wg0at <qrp.wg0at@...> wrote:

> **
>
>
> Today's Summits on the Air (SOTA) activation on Peak 10650 (10,650ft) is
> the third time I've used the same 9vdc battery (each activation averages
> about 40minutes of operating). 3w into 20m EFHW (antenna du jour) did us
> justice!
>
>

10279. Re: [AT_Sprint] MTR Going on 3rd SOTA w/9vdc Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-26 01:44:35 UTC
From: Keith Hamilton
Topic: 10277 Message: 10279

Great pictures Steve! Thanks! Very enjoyable!

73
Keith N8CEP

On Jan 25, 2013, at 7:45 PM, "steve_wg0at" <qrp.wg0at@...> wrote:

> Today's Summits on the Air (SOTA) activation on Peak 10650 (10,650ft) is the third time I've used the same 9vdc battery (each activation averages about 40minutes of operating). 3w into 20m EFHW (antenna du jour) did us justice!
>
> My last SOTA for a while! Next activation is on a beach in Barbados as 8P9RT! Weeh! Woohoo! ...starting 1/30/13
>
> http://www.flickr.com/photos/goathiker/sets/72157632612504038/show/ … pic.twitter.com/Q8n0Ojx
>
> Cheers, Steve wGOAT
>
>

10280. Re: MTR Going on 3rd SOTA w/9vdc Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-26 13:09:13 UTC
From: steve_wg0at
Topic: 10277 Message: 10280

Yes, Started out with a fresh 9VDC "Energizer" and "it's still going" to coin a phrase. Does the MTR have a minimum drop out voltage? ...Steve wGOAT

--- In AT_Sprint@yahoogroups.com, Lee Hiers wrote:
>
> 9v alkaline?
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
> On Fri, Jan 25, 2013 at 7:45 PM, steve_wg0at wrote:
> > Today's Summits on the Air (SOTA) activation on Peak 10650 (10,650ft) is
> > the third time I've used the same 9vdc battery (each activation averages
> > about 40minutes of operating). 3w into 20m EFHW (antenna du jour) did us
> > justice!

10281. Re: [AT_Sprint] Re: MTR Going on 3rd SOTA w/9vdc Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-26 13:57:46 UTC
From: Robert Williams
Topic: 10277 Message: 10281

Hi Steve,

Have you heard of the LA1KHA PP3/MN1604 Challenge ..? Kjell set out a challenge to see how many QSO's and DXCC's he could manage using
a single PP3/MN1604 9V battery powering his Rockmite/other low power rig from SOTA summits.

I enclose a link.... looks like fun.
http://www.sotawatch.org/reflector.php?topic=5053#foot

Well done with packaging the UNUN in the floss case.

Good luck in Barbados. Will listen out for you.

73

Rob
G0PEB

----- Original Message -----
From: steve_wg0at
To: AT_Sprint@yahoogroups.com
Sent: Saturday, January 26, 2013 1:09 PM
Subject: [AT_Sprint] Re: MTR Going on 3rd SOTA w/9vdc Battery

Yes, Started out with a fresh 9VDC "Energizer" and "it's still going" to coin a phrase.
Does the MTR have a minimum drop out voltage? ...Steve wGOAT

--- In AT_Sprint@yahoogroups.com, Lee Hiers wrote:
>
> 9v alkaline?
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> 73 de Lee
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> Lee Hiers, AA4GA
> www.aa4ga.com
> On Fri, Jan 25, 2013 at 7:45 PM, steve_wg0at wrote:
> > Today's Summits on the Air (SOTA) activation on Peak 10650 (10,650ft) is
> > the third time I've used the same 9vdc battery (each activation averages
> > about 40minutes of operating). 3w into 20m EFHW (antenna du jour) did us
> > justice!

10282. Re: [AT_Sprint] Re: MTR Going on 3rd SOTA w/9vdc Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-26 16:56:21 UTC
From: Steven Weber
Topic: 10277 Message: 10282

> Yes, Started out with a fresh 9VDC "Energizer" and "it's still going" to
> coin a phrase. Does the MTR have a minimum drop out voltage? ...Steve
> wGOAT

The rig will work down to at least 5.5 V. The receiver will likely stay working down to about 4.5 volts, not sure if the PA keying will still work that low.

Steve KD1JV

10283. Re: [AT_Sprint] 80/160 M rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-26 17:07:27 UTC
From: Steven Weber
Topic: 10254 Message: 10283

I'm not sure when, if ever, I'll go back to that design. It wasn't panning out nearly as well as I had hoped and then I got side tracked by something else. Hint: look for something new from QRPKITS in a few weeks...

KD1JV

Does the progress with the MTR mean that you'll be getting back to your earlier project of a 160/80 meter rig?

I'm waiting on pinzandneedles for that one. I'd LOVE to be able to run with one of your rigs in the CQ 160 or ARRL 160 contest!

10284. Wanted: MTR 20/30 Meters

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-26 21:52:04 UTC
From: f_skinner
Topic: 10284 Message: 10284

If anyone has a MTR with 20 and 30 meters and wants to part with it I would be willing to purchase it.

I do plan on purchasing one this go around (I waited too long last time) if no one wants to sell theirs.

Thanks in advance and 72
Frank
K0JQZ
f_skinner@...

10285. Re: [AT_Sprint] MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 10:26:13 UTC
From: Peter Martin
Topic: 10254 Message: 10285

Steve,
Any chance the next run will include 5Mhz as a build option, before I take my soldering iron to my trusty 40/20 one?

Pete
G4ISJ

10286. Re: MTR Going on 3rd SOTA w/9vdc Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 12:30:04 UTC
From: steve_wg0at
Topic: 10277 Message: 10286

Darn you, Rob! Wow! this is an epic read when I should be packing! But I can't stop reading about Kjell and Richard ...and then Colin's fascinating QRPp journey! Great stuff! Better than any top selling action/adventure novel in my mind! ...I'm at where Kjell is over 240-QSOs with same 9Vdc battery via a 30m RockMite ...Amazing!! But I'm only one third into the post's thread ...maybe I can download this to PDF for later reading? ...very FUN! ...Tks Rob!

Makes me want to take the challenge here in NA maybe some one has? Dang I have to finish reading this thread ...NOW! ;-)

Steve/wGOAT

--- In AT_Sprint@yahoogroups.com, "Robert Williams" wrote:
>
> Hi Steve,
>
> Have you heard of the LA1KHA PP3/MN1604 Challenge ..? Kjell set out a challenge to see how many QSO's and DXCC's he could manage using
> a single PP3/MN1604 9V battery powering his Rockmite/other low power rig from SOTA summits.
>
> I enclose a link.... looks like fun.
http://www.sotawatch.org/reflector.php?topic=5053#foot
>
> Well done with packaging the UNUN in the floss case.
>
> Good luck in Barbados. Will listen out for you.
>
> 73
>
> Rob
> G0PEB
>
> ----- Original Message -----
> From: steve_wg0at
> To: AT_Sprint@yahoogroups.com
> Sent: Saturday, January 26, 2013 1:09 PM
> Subject: [AT_Sprint] Re: MTR Going on 3rd SOTA w/9vdc Battery
>
>
>
> Yes, Started out with a fresh 9VDC "Energizer" and "it's still going" to coin a phrase. Does the MTR have a minimum drop out voltage? ...Steve wGOAT
>
> --- In AT_Sprint@yahoogroups.com, Lee Hiers wrote:
> >

> > 9v alkaline?
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> > 73 de Lee
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> > Lee Hiers, AA4GA
> > www.aa4ga.com
> > On Fri, Jan 25, 2013 at 7:45 PM, steve_wg0at wrote:
> > > Today's Summits on the Air (SOTA) activation on Peak 10650 (10,650ft) is
> > > the third time I've used the same 9vdc battery (each activation averages
> > > about 40minutes of operating). 3w into 20m EFHW (antenna du jour) did us
> > > justice!
>

10287. Re: MTR Going on 3rd SOTA w/9vdc Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 13:57:37 UTC
From: Colin
Topic: 10277 Message: 10287

Hi Steve,

I heard about this years BITC trip on one of the ham podcasts I listen to. I hope the trip goes well and you shoot lots of video to share with us :-)

I started having a go at the PP3 challenge to learn and improve operating in CW. I also used the challenge to hone my home brewing skills.

I had lots of fun doing the challenge last winter, it certainly helped a lot to get me going with CW for SOTA.

The trouble is that PP3s last too long! I can't commit to enough summit outings to use up the battery!

In May I built my MTR and now it has replaced the RockMites in my pack. The MTR is such a cool radio!

I guess things might be a bit different in the US, but I found 40m is best for sheer numbers of contacts. I suffered lots of QSB on 30m. With my 20m challenge rig I worked N1EU, this worked out at 36,393 miles per watt! I have the certificate on my wall .

All the best for your trip, I'll try and keep an ear out for you.

73, Colin M0CGH (patiently waiting to order a new MTR!)
--- In AT_Sprint@yahoogro

ups.com, "steve_wg0at" wrote
> Darn you, Rob! Wow! this is an epic read when I should be packing! But I can't stop reading about Kjell and Richad ...and then Colin's fascinating QRPp journey! Great stuff! Better than any top selling action/adventure novel in my mind! ...I'm at where Kjell is over 240-QSOs with same 9Vdc battery via a 30m RockMite ...Amaz N1ETU ing!! But I'm only one third into the post's thread ...maybe I can download this to PDF for later reading? ...very FUN! ...Tks Rob!
>
> Makes me want to take the challenge here in NA maybe some one has? Dang I have to finish reading this thread ...NOW! ;-)
>
> Steve/wGOAT
>
> --- In AT_Sprint@yahoogroups.com, "Robert Williams" wrote:
> >
> > Hi Steve,
> >
> > Have you heard of the LA1KHA PP3/MN1604 Challenge ..? Kjell set out a challenge to see how many QSO's and DXCC's he could manage using
> > a single PP3/MN1604 9V battery powering his Rockmite/other low power rig from SOTA summits.

> >
> > I enclose a link.... looks like fun.
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> >
> > Well done with packaging the UNUN in the floss case.
> >
> > Good luck in Barbados. Will listen out for you.
> >
> > 73
> >
> > Rob
> > G0PEB
> >
> > ----- Original Message -----
> > From: steve_wg0at
> > To: AT_Sprint@yahoogroups.com
> > Sent: Saturday, January 26, 2013 1:09 PM
> > Subject: [AT_Sprint] Re: MTR Going on 3rd SOTA w/9vdc Battery
> >
> >
> >
> > Yes, Started out with a fresh 9VDC "Energizer" and "it's still going" to coin a phrase.
Does the MTR have a minimum drop out voltage? ...Steve wGOAT
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> > --- In AT_Sprint@yahoogroups.com, Lee Hiers wrote:
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> > > > Today's Summits on the Air (SOTA) activation on Peak 10650 (10,650ft) is
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> > > > about 40minutes of operating). 3w into 20m EFHW (antenna du jour) did us
> > > > justice!
> >
>

10288. MTR on 15 M?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 14:13:33 UTC
From: Johnny Matlock
Topic: 10288 Message: 10288

Gm :
Has any one in the group tried to change the MTR to 15 M and 40 M?
Thanks 72
Johnny AC0BQ

10289. Re: MTR on 15 M?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 16:13:04 UTC
From: n1rx
Topic: 10288 Message: 10289

Johnny,
I don't believe the MTR can go to 15M (21 MHz), as the DDS is clocked at 40 MHz. As a rule, one cannot produce a (clean) signal at more than a little below one-half the clock frequency.
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, Johnny Matlock wrote:
>
> Gm :
> Has any one in the group tried to change the MTR to 15 M and 40 M?
> Thanks 72
> Johnny AC0BQ
>

10290. Re: Ultralight 20m EFHW Antenna Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 16:28:23 UTC
From: radio_kx0r
Topic: 10245 Message: 10290

Steve,

I recently got my MTR running, and I noticed that the switches look vulnerable - thanks for telling us, because now we can be more careful in handling the rig.

I'm thinking of cutting off about half of the switch actuator stubs...but I haven't done it yet. They don't need to be so high, since they're not meant to be moved except for changing bands. I think sharp cutters and a bit of sandpaper would do the job OK without messing up the rig.

Unless Steve Weber tells us the part number, it might be possible to source these switches at Digikey or Mouser. They have a lot of slide switches, so it's not trivial.

George/Carey
KX0R

--- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
>
> Forgot to mention my efforts yesterday were almost for not when unpacked my MTR I noticed one of the slide switches was busted clean off! And the last time I use the rig was 40m! I was aiming to get on 20m ...uh-oh? Forgot a knife so car keys to the rescue. Using the point of a key I was able to slide the switch to 20m position ..Whew!
>
> And NO Rooster didn't step on my MTR! I think something got sideways in my pack and broke it off??
>
> Does anyone have an extra slide switch in their spare parts? Thanks, Steve wGOAT
>
> --- In AT_Sprint@...m, "steve_wg0at" wrote:
> >
> > Got out for hike today to test the antenna ...worked good with some solid signal reports from both coast and Canada.
> >
> > http://www.flickr.com/photos/goathiker/sets/72157632590116589/show/
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> > Cheers, Steve wGOAT
> > --- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
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> > > Still dialing in my SOTAlite rig for upcoming season. Still need to convert my purchased MTR 20/40 to a 20/30 but meanwhile I shrunk this impedance matching network idea (link below) to fit into a plastic floss case. Haven't had a chance to field test it yet but my analyzer sure likes it! Hope it actually plays well on an upcoming SOTA this Friday! Thinking of adding a clip on section for 30m once I get my MTR converted to 30m.
> > >
> > > EFHW design plans: http://www.earchi.org/92011endfedfiles/Endfed20.pdf

> > >
> > > Some pics: (click on "Show Info" to view captions)
> > > http://www.flickr.com/photos/goathiker/sets/72157632572757726/show/with/8406257719/
> > >
> > > 73, Steve/wGOAT
> > >
> >
>

10291. Re: MTR Going on 3rd SOTA w/9vdc Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 17:23:09 UTC
From: radio_kx0r
Topic: 10277 Message: 10291

All,

The performance of these well-engineered rigs on low voltage is impressive - this is why a used 9V battery can deliver so many Q's.

However, there is another side to this - especially for portable use -why knock the signal down several db from what it could be? Why not run 4 or 5W with an efficient battery, along with a good antenna, and let everyone have an easier time copying?

While at times even a few milliwatts will create a QSO, most of the time with our low-to-moderate solar activity, and compromise portable antennas, even 5 watts is down in the noise as the QSB periodically pulls the signal down. Two or three db often is the difference between rough copy - or no copy - and OK copy. When you're 20 or 30 db above the noise floor, 2 or 3 db is nothing. When you're right in the noise, 2 or 3 db is huge!

Whenever I go portable, I use a 3-cell lithium-ion battery and run 5W out from my ATS/MTR rigs. I think that the other guys deserve as good a signal as I can reasonably create.

When I copy other QRP stations, many would benefit from another 2 or 3 db. Honestly, signals are often marginal.

I think this "9V battery thing" has gone too far. Just because the ATS rigs will work OK with them doesn't make up for their high cost and their inability to be recharged. The hobby parts stores are selling economical, high-performance lithium polymer and lithium ion batteries, some of them very small and light; with a little knowledge and appropriate caution, for a few dollars, you can have a really good power source and a signal with more presence through the QSB! With a few ounces you can operate over a three-day weekend or whatever.

The point of QRP is not to be weak, or weaker, but to communicate more or better with less. Good QRP technology - like the ATS rigs - enables us to operate comfortably from the wilderness, or do SOTA peaks, or have interesting experiences or events from places we otherwise would have never operated radios from.

The whole thing is more fun if signals are Q5...

72

KX0R

--- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
>
> Yes, Started out with a fresh 9VDC "Energizer" and "it's still going" to coin a phrase. Does the MTR have a minimum drop out voltage? ...Steve wGOAT
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> --- In AT_Sprint@yahoogroups.com, Lee Hiers wrote:
> >
> > 9v alkaline?

> >
> > 73 de Lee
> > --
> > Lee Hiers, AA4GA
> > www.aa4ga.com
> > On Fri, Jan 25, 2013 at 7:45 PM, steve_wg0at wrote:
> > > Today's Summits on the Air (SOTA) activation on Peak 10650 (10,650ft) is
> > > the third time I've used the same 9vdc battery (each activation averages
> > > about 40minutes of operating). 3w into 20m EFHW (antenna du jour) did us
> > > justice!
>

10292. Re: MTR on 15 M?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 17:24:59 UTC
From: Johnny Matlock
Topic: 10288 Message: 10292

Thanks Bruce:
I thought I heard that there was a problem ,
But I couldn't remover what it was!
72
Johnny AC0Bq

On Sunday, January 27, 2013, n1rx wrote:

> **
>
>
> Johnny,
> I don't believe the MTR can go to 15M (21 MHz), as the DDS is clocked at
> 40 MHz. As a rule, one cannot produce a (clean) signal at more than a
> little below one-half the clock frequency.
> 73,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint%40yahoogroups.com');>, Johnny Matlock wrote:
> >
> > Gm :
> > Has any one in the group tried to change the MTR to 15 M and 40 M?
> > Thanks 72
> > Johnny AC0BQ
> >
>
>
>

10293. Re: [AT_Sprint] Re: MTR Going on 3rd SOTA w/9vdc Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 13:35:44 UTC
From: Robert Williams
Topic: 10277 Message: 10293

Steve,

>>> Makes me want to take the challenge here in NA maybe some one has?

I'm not aware that anyone from NA has as yet .... I was hoping you'd possibly do something with the idea over there .... since you
were already counting QSO's made from a 9v battery.
Might need a little tweaking and include states along with DXCC's since America is bigger than Europe.
Saying that ....I did manage a QSO with N1EU with my Rockmite.

I'm now waiting for my chance to get a MTR .....

Good luck with the packing :-)

73

Rob
G0PEB

----- Original Message -----
From: steve_wg0at
To: AT_Sprint@yahoogroups.com
Sent: Sunday, January 27, 2013 12:30 PM
Subject: [AT_Sprint] Re: MTR Going on 3rd SOTA w/9vdc Battery

Darn you, Rob! Wow! this is an epic read when I should be packing! But I can't stop reading about Kjell and Richard ...and then Colin's fascinating QRPp journey! Great stuff! Better than any top selling action/adventure novel in my mind! ...I'm at where Kjell is over 240-QSOs with same 9Vdc battery via a 30m RockMite ...Amazing!! But I'm only one third into the post's thread ...maybe I can download this to PDF for later reading? ...very FUN! ...Tks Rob!

Makes me want to take the challenge here in
NA maybe some one has? Dang I have to finish reading this thread ...NOW! ;-)
Steve/wGOAT

--- In AT_Sprint@yahoogroups.com, "Robert Williams" wrote:
>
> Hi Steve,
>
> Have you heard of the LA1KHA PP3/MN1604 Challenge ..? Kjell set out a challenge to see how many QSO's and DXCC's he could manage using
> a single PP3/MN1604 9V battery powering his Rockmite/other low power rig from SOTA summits.
>
> I enclose a link.... looks like fun.

http://www.sotawatch.org/reflector.php?topic=5053#foot
>
> Well done with packaging the UNUN in the floss case.
>
> Good luck in Barbados. Will listen out for you.
>
> 73
>
> Rob
> G0PEB
>
> ----- Original Message -----
> From: steve_wg0at
> To: AT_Sprint@yahoogroups.com
> Sent: Saturday, January 26, 2013 1:09 PM
> Subject: [AT_Sprint] Re: MTR Going on 3rd SOTA w/9vdc Battery
>
>
>
> Yes, Started out with a fresh 9VDC "Energizer" and "it's still going" to coin a phrase.
Does the MTR have a minimum drop out voltage? ...Steve wGOAT
>
> --- In AT_Sprint@yahoogroups.com, Lee Hiers wrote:
> >
> > 9v alkaline?
> >
> > 73 de Lee
> > --
> > Lee Hiers, AA4GA
> > www.aa4ga.com
> > On Fri, Jan 25, 2013 at 7:45 PM, steve_wg0at wrote:
> > > Today's Summits on the Air (SOTA) activation on Peak 10650 (10,650ft) is
> > > the third time I've used the same 9vdc battery (each activation averages
> > > about 40minutes of operating). 3w into 20m EFHW (antenna du jour) did us
> > > justice!
>

10294. Re: MTR on 15 M?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 18:46:38 UTC
From: dl2arl
Topic: 10288 Message: 10294

...what about 17m? 18 MHz would be something more than a little below one-half of the clock frequency. Yes, something less more than 14MHz would, but ... someone give it a try? It would be GREAT for me to have an ALL-WARC MTR (30m & 17m), as I am mostly active on weekends and try to keep clear from contests as much as I can. Here in old EU with maybe some 75 different countries on a place not much bigger than your W5, you will find almost each weekend a country having it's yearly most important DX contest. Digging with QRP around those big guns is not much fun for me, so this is why I try to stick with the WARC bands.
73! Razvan DL2ARL
-
> > Johnny,
> > I don't believe the MTR can go to 15M (21 MHz), as the DDS is clocked at
> > 40 MHz. As a rule, one cannot produce a (clean) signal at more than a
> > little below one-half the clock frequency.
> > 73,
> > Bruce, N1RX
> >
> > --- In AT_Sprint@yahoogroups.com
> 'AT_Sprint%40yahoogroups.com');>, Johnny Matlock wrote:
> > >
> > > Gm :
> > > Has any one in the group tried to change the MTR to 15 M and 40 M?
> > > Thanks 72
> > > Johnny AC0BQ
> > >
> >
> >
> >
>

10295. Re: MTR on 15 M?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 18:52:22 UTC
From: n1rx
Topic: 10288 Message: 10295

I don't believe thee is any technical reason you could not do 30M/17M on a MTR. All you have to do is determine the 17M filter components, and modify the firmware appropriately.
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "dl2arl" wrote:
>
>
>
> ...what about 17m? 18 MHz would be something more than a little below one-half of the clock frequency. Yes, something less more than 14MHz would, but ... someone give it a try? It would be GREAT for me to have an ALL-WARC MTR (30m & 17m), as I am mostly active on weekends and try to keep clear from contests as much as I can. Here in old EU with maybe some 75 different countries on a place not much bigger than your W5, you will find almost each weekend a country having it's yearly most important DX contest. Digging with QRP around those big guns is not much fun for me, so this is why I try to stick with the WARC bands.
> 73! Razvan DL2ARL

10296. Re: MTR Going on 3rd SOTA w/9vdc Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 19:02:18 UTC
From: Colin
Topic: 10277 Message: 10296

Hi NX0R,

I think you've missed the point.

The point of ham radio is trying new things and pushing limits. The MTR is a superbly efficient piece of kit, why is it so bad to test it's abilities to the limit and discover just how far you can go?

The fun is in doing new things and finding new ways to do things.

We have a saying witin SOTA circles - 'Activator is King', sure it's great to know that you can take a sturdy battery and pump out 5 watts all day long, but it can sometimes get a bit dull.

It's quite amazing just how far a few milliwatts will go from a good location, signal strength is not the only measure of a good QSO.

72,
Colin, M0CGH

--- In AT_Sprint@yahoogroups.com, "radio_kx0r" wrote:
>
> All,
>
> The performance of these well-engineered rigs on low voltage is impressive - this is why a used 9V battery can deliver so many Q's.
>
> However, there is another side to this - especially for portable use -why knock the signal down several db from what it could be? Why not run 4 or 5W with an efficient battery, along with a good antenna, and let everyone have an easier time copying?
>
> While at times even a few milliwatts will create a QSO, most of the time with our low-to-moderate solar activity, and compromise portable antennas, even 5 watts is down in the noise as the QSB periodically pulls the signal down. Two or three db often is the difference between rough copy - or no copy - and OK copy. When you're 20 or 30 db above the noise floor, 2 or 3 db is nothing. When you're right in the noise, 2 or 3 db is huge!
>
> Whenever I go portable, I use a 3-cell lithium-ion battery and run 5W out from my ATS/MTR rigs. I think that the other guys deserve as good a signal as I can reasonably create.
>
> When I copy other QRP stations, many would benefit from another 2 or 3 db. Honestly, signals are often marginal.
>
> I think this "9V battery thing" has gone too far. Just because the ATS rigs will work OK with them doesn't make up for their high cost and their inability to be recharged. The hobby parts stores are selling economical, high-performance lithium polymer and lithium ion batteries, some of them very small and light; with a little knowledge and appropriate

caution, for a few dollars, you can have a really good power source and a signal with more presence through the QSB! With a few ounces you can operate over a three-day weekend or whatever.
>
> The point of QRP is not to be weak, or weaker, but to communicate more or better with less. Good QRP technology - like the ATS rigs - enables us to operate comfortably from the wilderness, or do SOTA peaks, or have interesting experiences or events from places we otherwise would have never operated radios from.
>
> The whole thing is more fun if signals are Q5...
>
> 72
>
> KX0R
>
> --- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
> >
> > Yes, Started out with a fresh 9VDC "Energizer" and "it's still going" to coin a phrase. Does the MTR have a minimum drop out voltage? ...Steve wGOAT
> >
> > --- In AT_Sprint@yahoogroups.com, Lee Hiers wrote:
> > >
> > > 9v alkaline?
> > >
> > > 73 de Lee
> > > --
> > > Lee Hiers, AA4GA
> > > www.aa4ga.com
> > > On Fri, Jan 25, 2013 at 7:45 PM, steve_wg0at wrote:
> > > > Today's Summits on the Air (SOTA) activation on Peak 10650 (10,650ft) is
> > > > the third time I've used the same 9vdc battery (each activation averages
> > > > about 40minutes of operating). 3w into 20m EFHW (antenna du jour) did us
> > > > justice!
> >
>

10297. Re: [AT_Sprint] Re: MTR on 15 M?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 22:51:26 UTC
From: Steven Weber
Topic: 10288 Message: 10297

You'd have to change the reference clock and DDS filter too. The stock rig uses a 40 MHz clock to keep the current down. There is a bit of jump in the current draw when going to a 50 or 60 MHz clock - on the order of 10 ma.

A 40 MHz clock is a little marginal already for 14 MHz, but is close enough to the 3X rule of thumb. 18 MHz would be not be acceptable. The DDS filter starts to roll off at 14 MHz.

KD1JV

>I don't believe thee is any technical reason you could not do 30M/17M on a
>MTR. All you have to do is determine the 17M filter components, and modify
>the firmware appropriately.
> Bruce, N1RX
>

10298. Re: [AT_Sprint] MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 22:57:40 UTC
From: Steven Weber
Topic: 10254 Message: 10298

Maybe. It has crossed my mind. But that means I'll have to figure out a filter too. Since that band is so limited, being restricted to one of 5 channels, I kinda doubt there's be enough interest to warrent supplying the parts for the filter (which takes extra time and money). Unless the band works differently in the EU and your not restircted to channels? If that's the case, I'd have to support both schemes. Errr, getting complicated...

Any chance the next run will include 5Mhz as a build option, before I take my soldering iron to my trusty 40/20 one?

10299. Re: MTR on 15 M?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-27 22:58:47 UTC
From: Johnny Matlock
Topic: 10288 Message: 10299

I believe the long answer to my original question is to just use the little rig as designed!
Thanks for the input guys.
72
Johnny AC0BQ

On Sunday, January 27, 2013, Steven Weber wrote:

> **
>
>
> You'd have to change the reference clock and DDS filter too. The stock rig
> uses a 40 MHz clock to keep the current down. There is a bit of jump in
> the
> current draw when going to a 50 or 60 MHz clock - on the order of 10 ma.
>
> A 40 MHz clock is a little marginal already for 14 MHz, but is close
> enough
> to the 3X rule of thumb. 18 MHz would be not be acceptable. The DDS filter
> starts to roll off at 14 MHz.
>
> KD1JV
>
> >I don't believe thee is any technical reason you could not do 30M/17M on
> a
> >MTR. All you have to do is determine the 17M filter components, and
> modify
> >the firmware appropriately.
> > Bruce, N1RX
> >
>
>
>

10300. Re: [AT_Sprint] Re: MTR on 15 M?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-28 01:00:39 UTC
From: Bill Noyce
Topic: 10288 Message: 10300

With a 40 MHz clock, trying to generate 18.1 MHz would produce a strong
spur at 21.9 MHz, along with other junk. It would be tough to filter out.
-- Bill, AB1AV
On Jan 27, 2013 1:46 PM, "dl2arl" <dl2arl@...> wrote:

> **
>
>
>
>
> ...what about 17m? 18 MHz would be something more than a little below
> one-half of the clock frequency. Yes, something less more than 14MHz would,
> but ... someone give it a try? It would be GREAT for me to have an ALL-WARC
> MTR (30m & 17m), as I am mostly active on weekends and try to keep clear
> from contests as much as I can. Here in old EU with maybe some 75 different
> countries on a place not much bigger than your W5, you will find almost
> each weekend a country having it's yearly most important DX contest.
> Digging with QRP around those big guns is not much fun for me, so this is
> why I try to stick with the WARC bands.
> 73! Razvan DL2ARL
> -
> > > Johnny,
> > > I don't believe the MTR can go to 15M (21 MHz), as the DDS is clocked
> at
> > > 40 MHz. As a rule, one cannot produce a (clean) signal at more than a
> > > little below one-half the clock frequency.
> > > 73,
> > > Bruce, N1RX
> > >
> > > --- In AT_Sprint@yahoogroups.com
> > 'AT_Sprint%40yahoogroups.com');>, Johnny Matlock wrote:
> > > >
> > > > Gm :
> > > > Has any one in the group tried to change the MTR to 15 M and 40 M?
> > > > Thanks 72
> > > > Johnny AC0BQ
> > > >
> > >
> > >
> > >
> >
>
>
>

10301. Re: MTR on 15 M?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-28 01:59:33 UTC
From: n1rx
Topic: 10288 Message: 10301

Thanks for the reality check, Steve (and Bill AB1AV). Bottom line- not worth trying.
73,
bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
>
> You'd have to change the reference clock and DDS filter too. The stock rig
> uses a 40 MHz clock to keep the current down. There is a bit of jump in the
> current draw when going to a 50 or 60 MHz clock - on the order of 10 ma.
>
> A 40 MHz clock is a little marginal already for 14 MHz, but is close enough
> to the 3X rule of thumb. 18 MHz would be not be acceptable. The DDS filter
> starts to roll off at 14 MHz.
>
> KD1JV
>
> >I don't believe thee is any technical reason you could not do 30M/17M on a
> >MTR. All you have to do is determine the 17M filter components, and modify
> >the firmware appropriately.
> > Bruce, N1RX
> >
>

10302. Re: [AT_Sprint] MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-28 17:25:37 UTC
From: Colin Tuckley
Topic: 10254 Message: 10302

On 27/01/13 22:57, Steven Weber wrote:

> Maybe. It has crossed my mind. But that means I'll have to figure out a
> filter too. Since that band is so limited, being restricted to one of 5
> channels, I kinda doubt there's be enough interest to warrent supplying
> the parts for the filter (which takes extra time and money). Unless the
> band works differently in the EU and your not restircted to channels? If
> that's the case, I'd have to support both schemes. Errr, getting
> complicated...

The 5MHz allocation in the UK has just been increased a lot. Also several other European countries now have allocations around 5MHz with more in the process of being allowed.

Several of the countries now have non-channelised allocations (incl the UK) so it's probably best just to treat it as another band with upper and lower limits.

Perhaps if you made it really obvious in the software how to set/change the limits then people could reprogram their rigs themselves. Or depending how much work it is, make it possible for the user to store the limits using a special command.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

I have a watch cat! Just break in and she'll watch.

10303. Re: [AT_Sprint] MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-28 18:28:12 UTC
From: Peter Martin
Topic: 10254 Message: 10303

On 28 Jan 2013 17:25, "Colin Tuckley" <colin@...> wrote:
>
> On 27/01/13 22:57, Steven Weber wrote:
>
> > Maybe. It has crossed my mind. But that means I'll have to figure out a
> > filter too. Since that band is so limited, being restricted to one of 5
> > channels, I kinda doubt there's be enough interest to warrent supplying
> > the parts for the filter (which takes extra time and money). Unless the
> > band works differently in the EU and your not restircted to channels? If
> > that's the case, I'd have to support both schemes. Errr, getting
> > complicated...
>
> The 5MHz allocation in the UK has just been increased a lot. Also
> several other European countries now have allocations around 5MHz with
> more in the process of being allowed.

Thanks Steve,
I appreciate the 5Mhz audience may be a bit limited.
As I said before Dave,, VK2DDJ has already provided me the code for operation for 5.258Mhz through to 5.406Mhz, which encompasses all our UK allocations.
I haven't got round to flashing my MTR yet due to lack of time, but hope to do so in the next few days and hopefully get the filters sorted too.
Once done, I'll have all bands from 80 to 15 split between the MTR and ATS4
:-)

Pete
G4ISJ

10304. poor reception only on 20m ATS-4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-28 23:38:16 UTC
From: nm5s
Topic: 10304 Message: 10304

Finally finishing up my kit. I used the fixed inductors in place of the input toroids. I do get a clear peak with the receiver input adjustment cap, but the receiver is very insensitive. My 50uV signal from my Elecraft SG-2 puts only 3 bars on the ATS-4's S meter. All other bands have normal reception. Maybe go back to the toroidal input for 20m? Any other suggestions?

NM5S, Alan
Santa Fe, NM

10305. Re: [AT_Sprint] MTR progress update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-29 01:56:47 UTC
From: Steven Weber
Topic: 10254 Message: 10305

As I said before Dave,, VK2DDJ has already provided me the code for operation for 5.258Mhz through to 5.406Mhz, which encompasses all our UK allocations.

Okay, I was afraid of that. In the US, we have to operate on 5 specific channels on exactly the center frequency. The only practical way to do that is to have those frequencies pre-programmed into the rig. I've got some time between now and when the next batch is ready, so maybe I'll look into adding these options.

KD1JV

10306. ATS3B kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-30 03:21:13 UTC
From: Bill Retzner
Topic: 1045 Message: 10306

Hello QRP enthusiasts.

I have had an ATS3B kit squirreled away since 2008, and now have finally decided to build it.
Not sure how, but there is no MPU (msp430f123) chip in my bag of parts.
Therefore I am looking for advice on how to procure the chip and program it.

73,
Bill WB9QXJ

10307. Re: ATS3B kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-30 19:26:29 UTC
From: radio_kx0r
Topic: 1045 Message: 10307

Bill,

It might be wrapped up in aluminum foil.

KX0R

--- In AT_Sprint@yahoogroups.com, Bill Retzner wrote:
>
> Hello QRP enthusiasts.
>
> I have had an ATS3B kit squirreled away since 2008, and now have finally
> decided to build it.
> Not sure how, but there is no MPU (msp430f123) chip in my bag of parts.
> Therefore I am looking for advice on how to procure the chip and program it.
>
> 73,
> Bill WB9QXJ
>

10308. Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-30 23:46:38 UTC
From: paradoxpete.pdm@...
Topic: 10308 Message: 10308

I've been trying, in vain, to get my MTR to talk to my Launchpad.
When attempting a download I get hardware initialising
and then get an error
"could not find device or device not supported"
If I add the processor to the Launchpad that came with the kit, it identifies that OK and even warns that it is not the correct device, so the UART software appears to be running OK.
I've gone as far as checking the Test and RST signals on the MTR board with a scope (although not on the actual MSP430 as it's so fine a pitch) and they look good.

Any ideas.

Pete
G4ISJ

10309. Re: [AT_Sprint] ATS3B kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-31 01:33:38 UTC
From: Steven Weber
Topic: 1045 Message: 10309

Is that all you missing? I found I forgot to put the IC package in to about 10 kits once and I was only able to identify 8 of them. You might be one of the missing two. But if your just missing the processor, I can replace that too. Contact me direct steve.kd1jv@...

Steve
Hello QRP enthusiasts.

I have had an ATS3B kit squirreled away since 2008, and now have finally decided to build it.
Not sure how, but there is no MPU (msp430f123) chip in my bag of parts.
Therefore I am looking for advice on how to procure the chip and program it.

73,
Bill WB9QXJ

10310. Re: [AT_Sprint] ATS3B kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-31 02:37:11 UTC
From: Mike-WE0H
Topic: 1045 Message: 10310

That's awesome customer service :) Kudos to Steve ;)

Mike-WE0H

Steve wrote:
>
> Is that all you missing? I found I forgot to put the IC package in to
> about 10 kits once and I was only able to identify 8 of them. You
> might be one of the missing two. But if your just missing the
> processor, I can replace that too. Contact me direct
> steve.kd1jv@... <mailto:steve.kd1jv@...>
> Steve

10311. Re: [AT_Sprint] Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-31 03:03:43 UTC
From: Steven Weber
Topic: 10308 Message: 10311

Do you have power connected to the board? Power is not supplied by the Launchpad.

> I've been trying, in vain, to get my MTR to talk to my Launchpad.
> When attempting a download I get hardware initialising
> and then get an error
> "could not find device or device not supported"

10312. Re: [AT_Sprint] Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-31 18:13:13 UTC
From: Peter Martin
Topic: 10308 Message: 10312

On Thu, Jan 31, 2013 at 3:03 AM, Steven Weber <steve.kd1jv@...> wrote:

> Do you have power connected to the board? Power is not supplied by the
> Launchpad.
>
>
Steve,
Yes I do have power connected.
I've played a little more today.

As soon as I start the download/Debug, the IAR software flashes up it's
initialising hardware dialogue.

Immediately on the MTR, the decimal point, power on indicator, goes out
and a few seconds later comes back on with the band anounciation and
display, e.g. ....- and 4 on the LED.
At this time I get the "could not find device error message".

I notice on the scope that the TEST signal is sitting low and goes high
with a data burst.
The RST signal is permanently high and blips low a couple of times during
the sequence.
I've now checked and these signals are measured on the processor pins
directly.

IAR reports the following:

Thu Jan 31, 2013 18:03:12: Using license: Standalone license - IAR Embedded
Workbench for Texas Instruments MSP430, 4K KickStart Edition 5.51
Thu Jan 31, 2013 18:03:14: Firmware version 30394216
Thu Jan 31, 2013 18:03:14: Interface dll version 2.4.9.1
Thu Jan 31, 2013 18:03:22: Fatal error: Could not find device (or device
not supported) Session aborted!

I'm assuming therefore something is wrong in the configuration of the
workbench files.
I'm trying to use MTR.eww and it shows up with the following components in
the Output tree:
MTR.d43
dl430fn.r43
lnk430F2132.xcl
MTR_3.r43

Stumped!
Pete
G4ISJ

10314. Re: [AT_Sprint] Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-31 18:55:49 UTC
From: Scott Zastoupil
Topic: 10308 Message: 10314

Hi Pete. Just curious if you've cross checked your process with the MTR load instructions with the PDF in the Files>MTR folder. I thought I'd point it out because I don't think it was mentioned yet.

Scott, KB0KFX

From: Peter Martin <paradoxpete.pdm@gmail.com>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, January 31, 2013 12:13 PM
Subject: Re: [AT_Sprint] Flashing the MTR

On Thu, Jan 31, 2013 at 3:03 AM, Steven Weber <steve.kd1jv@...> wrote:

Do you have power connected to the board? Power is not supplied by the
>Launchpad.
>
>
>
Steve,
Yes I do have power connected.
I've played a little more today.

As soon as I start the download/Debug, the IAR software flashes up it's initialising hardware dialogue.

Immediately on the MTR, the decimal point, power on indicator, goes out and a few seconds later comes back on with the band anounciation and display, e.g. ....- and 4 on the LED.
At this time I get the "could not find device error message".

I notice on the scope that the TEST signal is sitting low and goes high with a data burst.
The RST signal is permanently high and blips low a couple of times during the sequence.
I've now checked and these signals are measured on the processor pins directly.

IAR reports the following:

Thu Jan 31, 2013 18:03:12: Using license: Standalone license - IAR Embedded Workbench for Texas Instruments MSP430, 4K KickStart Edition 5.51
Thu Jan 31, 2013 18:03:14: Firmware version 30394216
Thu Jan 31, 2013 18:03:14: Interface dll version 2.4.9.1
Thu Jan 31, 2013 18:03:22: Fatal error: Could not find device (or device not supported)
Session aborted!

I'm assuming therefore something is wrong in the configuration of the workbench files.
I'm trying to use MTR.eww and it shows up with the following components in the Output tree:
MTR.d43
dl430fn.r43

lnk430F2132.xcl
MTR_3.r43

Stumped!
Pete
G4ISJ

10315. Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-01-31 20:41:46 UTC
From: David
Topic: 10308 Message: 10315

Hi Pete,
have a look in the "project options -> general" section and check that you have the correct processor selected.
Regards, Dave

--- In AT_Sprint@yahoogroups.com, paradoxpete.pdm@... wrote:
>
> I've been trying, in vain, to get my MTR to talk to my Launchpad.
> When attempting a download I get hardware initialising
> and then get an error
> "could not find device or device not supported"
> If I add the processor to the Launchpad that came with the kit, it identifies that OK and even warns that it is not the correct device, so the UART software appears to be running OK.
> I've gone as far as checking the Test and RST signals on the MTR board with a scope (although not on the actual MSP430 as it's so fine a pitch) and they look good.
>
> Any ideas.
>
> Pete
> G4ISJ
>

10316. Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-01 04:28:44 UTC
From: jgaffke
Topic: 10308 Message: 10316

Pete,
I had trouble following the pdf, wrote up my notes in message 9294. Won't necessarily address your particular problem though.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, Scott Zastoupil wrote:
> Hi Pete. Â Just curious if you've cross checked your process with the MTR load instructions with the PDF in the Files>MTR folder. Â I thought I'd point it out because I don't think it was mentioned yet.

10317. Use of C-Size Alkaline cells for Power Source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-02 15:05:39 UTC
From: Hank Greeb
Topic: 10317 Message: 10317

I'm wondering about the use of C-Size alkaline cells for a power source for my AT-Sprint.

My question all started when I bought 6 C cells for a backup battery for a boom box which needs power to maintain its memories when we move it from place to place. I screwed up - the thing needs D cells. Of course, I had destroyed the package in which the C-Cells came, so I'm stuck with them.

Rat Shack sells a holder for 2 C cells. Mouser sells several version of holders for6 cells.

But, Before I jump in with all four feet flailing.....

Has anyone used C-Cells for powering a QRP rig? The characteristics put out by Duracell, Energizer,etc. would seem to indicate that C-cells have considerable more capacity than AA cells. Does that translate into significantly longer life during actual use?

I'm not particularly concerned about weight. I have an 8 pack of NiMH cells which I use when I'm hiking.

Comments?

72/73 de n8xx Hg
QRP >99.44% of the time

10318. Re: Use of C-Size Alkaline cells for Power Source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-02 16:24:43 UTC
From: bill_w4zv
Topic: 10317 Message: 10318

--- In AT_Sprint@yahoogroups.com, Hank Greeb wrote:

> The characteristics put
> out by Duracell, Energizer,etc. would seem to indicate that C-cells have
> considerable more capacity than AA cells. Does that translate into
> significantly longer life during actual use?

Yes. The rig doesn't care as long as the voltage is correct. Brand new alkalines are typically 1.6V so 6 gives 9.6V max and will last a LONG time in an ATS rig (8000mAh vs 500mAh so 16 times longer).

73, Bill W4ZV

10319. Re: [AT_Sprint] Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-02 19:03:45 UTC
From: Peter Martin
Topic: 10308 Message: 10319

On Fri, Feb 1, 2013 at 4:28 AM, jgaffke <jgaffke@...> wrote:

> Pete,
> I had trouble following the pdf, wrote up my notes in message 9294. Won't
> necessarily address your particular problem though.
> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, Scott Zastoupil wrote:
> > Hi Pete. Â Just curious if you've cross checked your process with the
> MTR load instructions with the PDF in the Files>MTR folder. Â I thought I'd
> point it out because I don't think it was mentioned yet.
>
>
OK folks, thanks for all the assistance.
I started everything in IAR from afresh.
New Directory and new files using the updated MTR_3.s43

Plugged it all up , downloaded and debugged and set for FET Debugger.
I'm afraid I'm going to have to admit defeat on this one.
It still will not recognise the device.

I can plug the supplied MPUs that came with the Launchpad kit into the
header on the Launchpad and can merrily download the code to those no
problem.

I've reinstalled the UART drivers, updated IAR and tried it on a different
machine.
I've remade all the Spy Bi wire connections and monitored signals on the
MPU.
It will not recognise the MSP430f2132 - period!

It looks like I'm destined to stay on 40/20!

This has been an interesting project but I've spent way too many hours now
and not progressed at all :-)

I haven't had so much fun since I last worked on PDP11s!

Pete
G4ISJ

10320. Re: Use of C-Size Alkaline cells for Power Source?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-03 01:49:35 UTC
From: Etienne Scott
Topic: 10317 Message: 10320

Hi Hank -

Yes, I will agree that they will work - for a very long time. Some folks have been working those rigs at about 5 mAH per QSO (see msg 10188) - so maybe you could get 1600 QSO out of a set of six C cells - a whole summer's worth of use perhaps??

Etienne, K7ATN

--- In AT_Sprint@yahoogroups.com, Hank Greeb wrote:
>
> I'm wondering about the use of C-Size alkaline cells for a power source
> for my AT-Sprint.
>
> My question all started when I bought 6 C cells for a backup battery for
> a boom box which needs power to maintain its memories when we move it
> from place to place. I screwed up - the thing needs D cells. Of
> course, I had destroyed the package in which the C-Cells came, so I'm
> stuck with them.
>
> Rat Shack sells a holder for 2 C cells. Mouser sells several version of
> holders for6 cells.
>
> But, Before I jump in with all four feet flailing.....
>
> Has anyone used C-Cells for powering a QRP rig? The characteristics put
> out by Duracell, Energizer,etc. would seem to indicate that C-cells have
> considerable more capacity than AA cells. Does that translate into
> significantly longer life during actual use?
>
> I'm not particularly concerned about weight. I have an 8 pack of NiMH
> cells which I use when I'm hiking.
>
> Comments?
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>

10321. Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-03 04:53:20 UTC
From: jgaffke
Topic: 10308 Message: 10321

Weird. MTR works, SpyByWire talks to the launchpad device,
TST and RST are toggling, but won't connect to your MSP430.
Maybe TST and/or RST into your MSP430 got blown somehow?
Best bet might be to have somebody burn an MSP430 for you,
and you then solder it into place. Should give you your
new code. And maybe fix your SpyBywire connection.
Jerry, KE7ER
--- In AT_Sprint@yahoogroups.com, Peter Martin wrote:
> It will not recognise the MSP430f2132 - period!
> It looks like I'm destined to stay on 40/20!

10322. Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-03 18:07:32 UTC
From: jgaffke
Topic: 10308 Message: 10322

I suspect you could buy a fresh MSP430f2132 from Farnell and blow it yourself by soldering wires to it for VCC, GND, TST, and RST. Bend the VCC pin a bit out of plane (not right at the IC body, would weaken the pin) to avoid shorts. TST and RST might work even if shorted to an adjacent pin. Practice first with a DIP from the SpyByWire kit. Or spend all that time instead enjoying operation on 20 and 40.
Jerry, KE7ER
--- In AT_Sprint@yahoogroups.com, "jgaffke" wrote:
> Best bet might be to have somebody burn an MSP430 for you,
> and you then solder it into place.

10323. Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-03 18:21:01 UTC
From: jgaffke
Topic: 10308 Message: 10323

Make that GND/Vss and RST.
--- In AT_Sprint@yahoogroups.com, "jgaffke" wrote:
> TST and RST might work even if shorted to an adjacent pin.

10324. Re: [AT_Sprint] Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-03 21:12:27 UTC
From: Steven Weber
Topic: 10308 Message: 10324

Pete,

How long are the jumpers your using between the boards? Anything longer then about 6" can cause problems. There was a note about that somewhere in the TI documentation.

KD1JV

10325. Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-04 14:23:24 UTC
From: jgaffke
Topic: 10308 Message: 10325

Good point about the wire length. And if blowing a raw chip with SpyByWires soldered directly to the pins per my previous suggestion, might want a 0.1uF cap between VCC and GND near the chip as well.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:

> How long are the jumpers your using between the boards? ...

10326. Re: [AT_Sprint] Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-05 16:39:15 UTC
From: Peter Martin
Topic: 10308 Message: 10326

The jumpers are about 4" long so don't think that is the problem.

I can only assume that
a. the MPU is faulty.
b. I have a bad connection on the TEST Pin
c. it just doesn't like me!

I've acquired a new chip so I'll try and flash it by tacking the wires
directly to the launchpad.
If that works I'll consider replacing the current MPU or maybe wait and see
if I can get a new MTR :-)

Pete

On Mon, Feb 4, 2013 at 2:23 PM, jgaffke <jgaffke@...> wrote:

> Good point about the wire length. And if blowing a raw
> chip with SpyByWires soldered directly to the pins per
> my previous suggestion, might want a 0.1uF cap between
> VCC and GND near the chip as well.
> Jerry, KE7ER
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
> > How long are the jumpers your using between the boards? ...
>
>

10327. Re: [AT_Sprint] Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-06 00:52:26 UTC
From: Peter Martin
Topic: 10308 Message: 10327

Just to say, it's working!
The problem was on the Launchpad board all the time!
The rig is now happily running on 5mhz.

I just need to change a few LC components and hopefully we'll b edd good to
go.

Thanks for all the help. I've learnt a lot in the process!
Pete
On 5 Feb 2013 16:39, "Peter Martin" <paradoxpete.pdm@...> wrote:

> The jumpers are about 4" long so don't think that is the problem.
>
> I can only assume that
> a. the MPU is faulty.
> b. I have a bad connection on the TEST Pin
> c. it just doesn't like me!
>
> I've acquired a new chip so I'll try and flash it by tacking the wires
> directly to the launchpad.
> If that works I'll consider replacing the current MPU or maybe wait and
> see if I can get a new MTR :-)
>
> Pete
>
> On Mon, Feb 4, 2013 at 2:23 PM, jgaffke <jgaffke@...> wrote:
>
>> Good point about the wire length. And if blowing a raw
>> chip with SpyByWires soldered directly to the pins per
>> my previous suggestion, might want a 0.1uF cap between
>> VCC and GND near the chip as well.
>> Jerry, KE7ER
>> --- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
>> > How long are the jumpers your using between the boards? ...
>>
>>
>

10328. Re: [AT_Sprint] Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-06 01:13:59 UTC
From: XV4Y (Yan)
Topic: 10308 Message: 10328

Hi Peter,

Congratulations!
Sorry it was a hardware fault. Never easy to find out when you think "industrially made" hardware should be reliable and working as specified...

Recently I knocked my head against a wall with parts being on the edges of specifications. With prototypes and samples everything was going smoothly and I had margins.
Preparation a "production run" I had a lot of parts with two groups on both edges of the specs, and some of my MCUs (MSP430G2553) were also having different behavior that the one I had in hands before...

Enjoy 5MHz (as I don't even dream about it in Viêt-Nam)!

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 6 févr. 2013 à 07:52, Peter Martin a écrit :

>
>
> Just to say, it's working!
> The problem was on the Launchpad board all the time!
> The rig is now happily running on 5mhz.
>
> I just need to change a few LC components and hopefully we'll b edd good to go.
>
> Thanks for all the help. I've learnt a lot in the process!
> Pete
>
> On 5 Feb 2013 16:39, "Peter Martin" <paradoxpete.pdm@...> wrote:
> The jumpers are about 4" long so don't think that is the problem.
>
> I can only assume that
> a. the MPU is faulty.
> b. I have a bad connection on the TEST Pin
> c. it just doesn't like me!
>
> I've acquired a new chip so I'll try and flash it by tacking the wires directly to the launchpad.
> If that works I'll consider replacing the current MPU or maybe wait and see if I can get a new MTR :-)

>
> Pete
>
> On Mon, Feb 4, 2013 at 2:23 PM, jgaffke <jgaffke@...> wrote:
> Good point about the wire length. And if blowing a raw
> chip with SpyByWires soldered directly to the pins per
> my previous suggestion, might want a 0.1uF cap between
> VCC and GND near the chip as well.
> Jerry, KE7ER
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
> > How long are the jumpers your using between the boards? ...
>
>
>
>
>

10329. Re: [AT_Sprint] Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-06 04:51:24 UTC
From: Scott Zastoupil
Topic: 10308 Message: 10329

Congrats Pete. So what was wrong on the Launchpad? Describe your problem just in case one of us runs into the same issue. Thanks.

Scott, KB0KFX

From: Peter Martin <paradoxpete.pdm@...>
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, February 5, 2013 6:52 PM
Subject: Re: [AT_Sprint] Re: Flashing the MTR

Just to say, it's working!
The problem was on the Launchpad board all the time!
The rig is now happily running on 5mhz.
I just need to change a few LC components and hopefully we'll b edd good to go.
Thanks for all the help. I've learnt a lot in the process!
Pete
On 5 Feb 2013 16:39, "Peter Martin" <paradoxpete.pdm@...> wrote:

The jumpers are about 4" long so don't think that is the problem.
>
>I can only assume that
>a. the MPU is faulty.
>b. I have a bad connection on the TEST Pin
>c. it just doesn't like me!
>
>I've acquired a new chip so I'll try and flash it by tacking the wires directly to the launchpad.
>If that works I'll consider replacing the current MPU or maybe wait and see if I can get a new MTR :-)
>
>Pete
>
>
>On Mon, Feb 4, 2013 at 2:23 PM, jgaffke <jgaffke@...> wrote:
>
>Good point about the wire length. And if blowing a raw
>>chip with SpyByWires soldered directly to the pins per
>>my previous suggestion, might want a 0.1uF cap between
>>VCC and GND near the chip as well.
>>Jerry, KE7ER
>>--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
>>> How long are the jumpers your using between the boards? ...
>>
>>
>>

>

10330. Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-06 20:39:56 UTC
From: David
Topic: 10308 Message: 10330

That's really good news Peter, Dave VK2DDJ

--- In AT_Sprint@...m, Peter Martin wrote:
>
> Just to say, it's working!
> The problem was on the Launchpad board all the time!
> The rig is now happily running on 5mhz.
>
> I just need to change a few LC components and hopefully we'll b edd good to
> go.
>
> Thanks for all the help. I've learnt a lot in the process!
> Pete
> On 5 Feb 2013 16:39, "Peter Martin" wrote:
>
> > The jumpers are about 4" long so don't think that is the problem.
> >
> > I can only assume that
> > a. the MPU is faulty.
> > b. I have a bad connection on the TEST Pin
> > c. it just doesn't like me!
> >
> > I've acquired a new chip so I'll try and flash it by tacking the wires
> > directly to the launchpad.
> > If that works I'll consider replacing the current MPU or maybe wait and
> > see if I can get a new MTR :-)
> >
> > Pete
> >
> > On Mon, Feb 4, 2013 at 2:23 PM, jgaffke wrote:
> >
> >> Good point about the wire length. And if blowing a raw
> >> chip with SpyByWires soldered directly to the pins per
> >> my previous suggestion, might want a 0.1uF cap between
> >> VCC and GND near the chip as well.
> >> Jerry, KE7ER
> >> --- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
> >> > How long are the jumpers your using between the boards? ...
> >>
> >>
> >
>

10331. Re: [AT_Sprint] ATS3B kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-08 02:41:28 UTC
From: Bill
Topic: 1045 Message: 10331

I would like publicly thank Steve for receipt of the MPU chip via mail after 4.5 years from the time of ordering the ats3b kit.

The assembly is slow going, but progressing. I have one band filter board complete and all the inductors and back side resistors soldered on.

Again Thank You Steve for the great customer service.

73 all,

Bill WB9QXJ

On Jan 30, 2013, at 7:33 PM, "Steven Weber" <steve.kd1jv@...> wrote:

> Is that all you missing? I found I forgot to put the IC package in to about 10 kits once and I was only able to identify 8 of them. You might be one of the missing two. But if your just missing the processor, I can replace that too. Contact me direct steve.kd1jv@...
>
> Steve
> Hello QRP enthusiasts.
>
> I have had an ATS3B kit squirreled away since 2008, and now have finally decided to build it.
> Not sure how, but there is no MPU (msp430f123) chip in my bag of parts.
> Therefore I am looking for advice on how to procure the chip and program it.
>
> 73,
> Bill WB9QXJ
>
>

10332. *FOR SALE* KD1JV Nor'Easter table-top RX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-08 15:29:37 UTC
From: John Shadle
Topic: 10332 Message: 10332

This may be poor timing on my part, especially with respect to the storm that is about to hit the Northeast...but I would like to offer up this partially (over 80%) built kit.

KD1JV produced two Nor'Easter RX kits. This is the first version, and it is through hole (not SMT, like the more ubiquitous version). According to Steve KD1JV, there were "about 50" of these kits produced.

The kit is more than 80% complete. I will include a printed out manual for you to complete it. You should be able to provide an enclosure for the kit (Steve suggests wood, but any enclosure would do).

Here's the description from the manual:
The receiver tunes from 200 KHz to 19.000 MHz. There are eight preprogrammed frequencies available for quick recall and 21 user programmable station frequency memories. The receiver powers up at 7.000 MHz with a 5 KHz tuning rate. To conserve power, the display blanks about a minute after it comes on. (Display blanking can be disabled by grounding pin 12 of the cpu, U8) A 10 to 20 foot long antenna is recommended for best reception, especially if MW reception is desired.
The tuning encoder, which has a built-in push button, controls the operation of the receiver. Note that the receiver tunes with every other “click” of the encoder. The push button is used to wake up the display if it has blanked, selects the tuning rate, enters the pre-programmed frequency bands and user programmable memory functions. Push and release the push button, or turn the tuning knob to wake up the display if it is blanked. Push and release the push button to step through the frequency steps. The selected tuning decade digit will blank for a moment. Tuning rates of 5, 10 and 100 KHz maybe selected. Push and hold the push button to enter the other modes. Release the button when the desired function is shown on the display.

Asking $50 shipped to the US. PayPal is fine, or check or money order.

Thanks!
-john W4PAH
Madison, WI

10333. Re: *FOR SALE* KD1JV Nor'Easter table-top RX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-08 16:17:13 UTC
From: n1rx
Topic: 10332 Message: 10333

--- In AT_Sprint@yahoogroups.com, John Shadle wrote:
>
>
> KD1JV produced two Nor'Easter RX kits. This is the first version, and it is
> through hole (not SMT, like the more ubiquitous version). According to
> Steve KD1JV, there were "about 50" of these kits produced.
>

I din't realize the run on the "tabletop" version was that small. I have one of each of these, and they both work vey well. Like many (most) of my projects, they still have not made it into that "perfect" enclosure yet. Someday...

-Bruce, N1RX

10334. Another MTR run?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-08 22:18:40 UTC
From: Jackie Russell
Topic: 10334 Message: 10334

Steve, do you anticipate another run of the MTR? Would love to get my hands on one.

Thanks.

10335. Re: [AT_Sprint] Another MTR run?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-08 22:50:55 UTC
From: Peter Martin
Topic: 10334 Message: 10335

On Fri, Feb 8, 2013 at 10:18 PM, Jackie Russell <jackier1061@...> wrote:

> Steve, do you anticipate another run of the MTR? Would love to get my
> hands on one.
>
> Thanks.
>
>
Please keep up at the back!

See Steve's post of 23rd January.

Pete G4ISJ

MTR progress update
On Wed, Jan 23, 2013 at 4:59 PM, Steven <steve.kd1jv@...> wrote:
It's taken a bit longer to get the case nailed down then expected. The
tenative shipping date (from the factory) is now March 15th.

At 4.4 oz, the case is also a bit heavier then I expected, mostly due to
using steel instead of aluminum for the top piece. But this makes for one
really rugged cabinet!

I'll have 100 cases available at $20 for those who want the new offical,
bullet proof box for thier existing MTR.

I'll start accepting orders around the end of Febuary, to allow time for
your check or MO to arrive and be able to ship the kit just as soon as the
cabinets arrive from Ten-Tec.

That's right check or MO, I will no longer accept payment via paypal except
for DX orders. We'll figure out the details of how that will work later.

72, Steve KD1JV

10336. Re: *FOR SALE* KD1JV Nor'Easter table-top RX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-08 23:57:49 UTC
From: John Shadle
Topic: 10332 Message: 10336

This kit has been sold, pending receipt of funds. Thanks!
-john

On Fri, Feb 8, 2013 at 10:29 AM, John Shadle <shadle@...> wrote:

> This may be poor timing on my part, especially with respect to the storm
> that is about to hit the Northeast...but I would like to offer up this
> partially (over 80%) built kit.
>
> KD1JV produced two Nor'Easter RX kits. This is the first version, and it
> is through hole (not SMT, like the more ubiquitous version). According to
> Steve KD1JV, there were "about 50" of these kits produced.
>
> The kit is more than 80% complete. I will include a printed out manual for
> you to complete it. You should be able to provide an enclosure for the kit
> (Steve suggests wood, but any enclosure would do).
>
> Here's the description from the manual:
> The receiver tunes from 200 KHz to 19.000 MHz. There are eight
> preprogrammed frequencies available for quick recall and 21 user
> programmable station frequency memories. The receiver powers up at 7.000
> MHz with a 5 KHz tuning rate. To conserve power, the display blanks about a
> minute after it comes on. (Display blanking can be disabled by grounding
> pin 12 of the cpu, U8) A 10 to 20 foot long antenna is recommended for best
> reception, especially if MW reception is desired.
> The tuning encoder, which has a built-in push button, controls the
> operation of the receiver. Note that the receiver tunes with every other
> “click” of the encoder. The push button is used to wake up the display if
> it has blanked, selects the tuning rate, enters the pre-programmed
> frequency bands and user programmable memory functions. Push and release
> the push button, or turn the tuning knob to wake up the display if it is
> blanked. Push and release the push button to step through the frequency
> steps. The selected tuning decade digit will blank for a moment. Tuning
> rates of 5, 10 and 100 KHz maybe selected. Push and hold the push button to
> enter the other modes. Release the button when the desired function is
> shown on the display.
>
> Asking $50 shipped to the US. PayPal is fine, or check or money order.
>
> Thanks!
> -john W4PAH
> Madison, WI
>

10337. Re: Another MTR run?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-09 00:25:57 UTC
From: adam_edward_stevens
Topic: 10334 Message: 10337

I just hope to see the notice that Steve is accepting payment/orders. I really want one!!!

10338. Re: [AT_Sprint] Re: Another MTR run?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-09 01:27:37 UTC
From: Hank Greeb
Topic: 10334 Message: 10338

This weekend I hope he's curled up next to a roaring fireplace, with everything battened down from the storm.

Lettuce prey for survival of all our fellow hams' antennae in the gale force winds predicted for New England and surroundings.

72/73 de n8xx Hg
QRP >99.44% of the time

On 2/8/2013 7:25 PM, adam_edward_stevens wrote:
> I just hope to see the notice that Steve is accepting payment/orders. I really want one!!!

10339. NAQCC Sprint Tuesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-09 02:00:22 UTC
From: NAQCC
Topic: 2905 Message: 10339

NAQCC Sprint Tuesday night!

Our February sprint is this coming Tuesday evening local time (February 12, EST - 8:30-10:30PM, CST - 7:30-9:30PM, MST - 6:30-8:30PM, PST - 5:30-7:30PM), which translates as Wednesday February 13, 0130-0330Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201302.html

There you will find all the details as to time, frequencies and other important information.

SPECIAL NOTE: This is the 100th regular NAQCC sprint, and to celebrate, the NAQCC is offering some very special prizes to 13 MEMBERS who participate and report their results. Prizes will be awarded via a computer drawing. The prizes are being kept a secret until the drawing, but the first prize will be an item valued at over $150.00. For details check the sprint rules.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you've been hesitant to join in our sprints because you hear other sprints running at breakneck speeds, have no fear. Our sprints are geared to the newcomer to CW and/or contesting. Virtually everyone including the many veteran contesters who regularly enter our sprints will slow down to YOUR speed to help you make your contacts.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6460+ members in: All 50 States - 9 VE Provinces - 92 Countries. Sign up on the NAQCC website today (http://naqcc.info/) to receive a handsome certificate, with your membership number on it, which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

10340. Next MTR run.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-09 13:27:24 UTC
From: Jackie Russell
Topic: 10340 Message: 10340

Thanks guys, I had read about the new cases but I thought that they were to be sent out to be retrofitted to existing rigs. Now I know that the shippping has been held up until the cases come through.

I'll keep checking to see when Steve pulls the trigger.

10341. ATS4 External Controller

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-10 08:31:43 UTC
From: katsumi.seto
Topic: 10341 Message: 10341

For easier ATS4 operation, I built an ATS4 Controller with touch paddle as shown blow. Though I call it "Controller", it is nothing but simple directional tact switch box. I used ALPS SKQUAAA010 tact switch which has 4 contacts in one package, one for each direction. It is much easier to move aound the CW band than separate up and down tact swith.

http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1401.jpg
http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1402.jpg
http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1403.jpg
http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1404.jpg
http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1405.gif

DE JA7QIL/KATSU

10342. Changing Finals and Driver in ATS-3A

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-11 04:55:07 UTC
From: radio_kx0r
Topic: 10342 Message: 10342

Today I did an experiment that may be of interest to a few of you. I took my ATS-3A to the test bench, connected it regulated power, and recorded its power out, current consumption, and harmonic levels on the 20M band. This rig has served well, and there was nothing wrong with it.
14.06 MHz 5.1W 11.95V 800mA 2F -65db 3F -42 db It was more efficient on the lower bands, with similar numbers except for current, which falls somewhat with frequency.
Then I took the board out of the altoids box, and removed the three 2N7000 final mosfets. These were the original finals. I replaced them with BS170 mosfets made by ON Semiconductor. They now have the flat sides up instead of down. I did nothing special to them - no copper heatsink as I used in my ATS-3B when I replaced those finals some time ago (one of the 2N7000's did short in that rig).
Then I unsoldered the 74HC02 driver IC. This was harder than I expected. I tried to lift the legs with a steel wire, but the IC package partly disintegrated. I ended up cutting off some legs and removing the chip in bits. Fortunately the PCB was undamaged! I cleaned the pads and soldered in a new ON Semiconductor 74AC02. This is the driver used in the ATS-3B, ATS-4's, and MTR.
After re-installing the pcb in the Altoids box, and after a quick check with a current-limited supply, I tested the modified transmitter. To my great relief the rig behaved almost exactly as before!
I did no re-adjustments to the filter boards, the toroids, etc.
14.06 MHz 5.2W 11.94V 770mA 2F -67 db 3F -44 db 4F -54 db 7F ~98 MHz -51 db ~8 MHz -49 db ~98 10.11 MHz 5.3W 11.95V 690mA 2F -63 db 3F -43 db 4F -58 db 9F ~98 MHz -54 db close-in spurs -52 db7.03 MHz 5.1W 11.95V 660mA 2F -56 db 3F -43 db 4F -59 db some other stuff -52 db close-in -56 db3.56 MHz 5.3W 11.96V 610mA 2F -53 db 3F -44 db 4F -54 db 13F (~46 MHz) -52 db no close-in spurs seen
My rig has a modified key-shaping circuit, and the keying wave is still nice (unchanged).
The actual drain voltage is lower than the voltages above, because of the drops in the test leads used to power the rig, the schottky diode, the drop in the keying circuit, and the polyswitch I added for protection. So the efficiency of the PA is really good, and it improved a bit with the mods.
No complaints here!
So is it worth replacing the finals? Maybe not, until you have something happen to them - which may be never - then replace with the BS170's - just remember that the pinouts are reversed!
Is it worth replacing the driver? Probably not, unless you're better at surface mount removal than I am. Since I did the whole job in one short session, I made no set of measurements to see if changing from the

74HC02 to the 74AC02 made any difference. I also didn't examine the gate and drain waveforms to see if there was any real change.
So that's the story today...continuous improvement, good luck, no miracles!
72KX0RGeorge Carey Fuller

10343. Re: [AT_Sprint] Changing Finals and Driver in ATS-3A

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-11 13:33:20 UTC
From: Michael Harnage
Topic: 10342 Message: 10343

Unless you up the clock and are going for higher frequencies, it's not worth changing the driver.

>
>
>Is it worth replacing the driver?
>
>

10344. Re: Changing Finals and Driver in ATS-3A

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-11 13:49:54 UTC
From: cloud runner
Topic: 10342 Message: 10344

Nice job as always, Carey!

Regarding pulling SMD off the board ... suggest you look at "Chip-Quick." Makes it incredibly easy!

73, Fred = kt5x

ATS3B, ATS4B, MTR ...

aka WS0TA

Then I unsoldered the 74HC02 driver IC. This was harder than I expected. I tried to lift the legs with a steel wire, but the IC package partly disintegrated. I ended up cutting off some legs and removing the chip in bits. Fortunately the PCB was undamaged! I cleaned the pads and soldered in a new ON Semiconductor 74AC02. This is the driver used in the ATS-3B, ATS-4's, and MTR.

KX0R
George Carey Fuller

.

10345. Re: [AT_Sprint] Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-11 20:01:44 UTC
From: Peter Martin
Topic: 10308 Message: 10345

On Wed, Feb 6, 2013 at 4:51 AM, Scott Zastoupil <szastoupil@...>wrote:

>
>
> Congrats Pete. So what was wrong on the Launchpad? Describe your problem
> just in case one of us runs into the same issue. Thanks.
>
> Scott, KB0KFX
>
>
Sorry for the long delay in replying.
To say that the problem was with the Launchpad was probably not 100% correct. It was my use of the Launchpad that was the problem :-)

Anyway let's start at the beginning for a quick lessons learnt as it may help some others.

I started by loading the new code into IAR Workbench (here on known as IAR).
I added three jumpers from the from the LaunchPad (LP) to a three pin header plug which fits into the MTR.
I soldered the jumpers to the header pins that connect the emulator to expansion on the LP.
Everything looked good, and I ran the download.
It failed with and error message "communications error - no port available".
After much head scratching I looked in the device manager on my PC (Windoze XP SP3) and find a ? beside the MSP430 Application UART. The driver had not loaded when I installed IAR.

After lots more head scratching I finally got the driver to load.
If you have this problem to save you time you need to search for the driver manually during the process.
It will be found in - Program Files\IAR Systems Embedded Workbench 6.4\430\drivers\TIUSBFET\eZ430-UART

Once installed, I tried a download again.
It worked - or appeared to. When I checked the MTR it was exactly as before.

Back to the drawing board and at this time one of the jumpers broke off the jumper.
After reading the alternate Instructions, I found that IAR was in "simulation mode" not download mode.
I went in and changed the properties for TIUSBFET on IAR.

I decided to fix the broken jumper by just plugging it into the expansion DIP socket, after all the same signal is there, I know, I'd scoped it

already.

You know the story already. It wouldn't work.

More research and I find that lead length is critical, so I cut all the jumpers down to 4" and to save me resoldering, just plug them directly into the DIP header.

Still no go!
It was at this point that I was tempted to throw in the towel.
I decided however I wouldn't be defeated.
I went back to the original setup and connected the jumper wires onto the jumpers between Emulator and Expansion.

Lo and behold, I tried again and it downloaded first time!

I moved the same wires back to the DIP header - it fails!

So the answer is that it doesn't like taking a feed off the DIP header. I expect the extra capacitance between the tracks makes a difference.

After so much playing I wasn't done yet.

To make things as simple as possible with the rest of the modification, I decided to use my 40m position for 5 Mhz and keep 20 as it is. This meant modifying the code again. After a quick look I saw how simple this is, so reworked the code and flashed the MTR again. Naturally it worked first go (I'm getting good at this!).

Happy that the code was working I set about changing the filters.
Luckily I had a few spare components left over from the ATS4 and MTR for unused bands.
I would end up using these!

In the end it looks like this:
In the RX section I used 39 uH inductors. These peak up OK with the 30pf trimmers already installed.

In the TX I used the following:
L12 18 T
L13 20 T
C47/C57 680pF
C66 - 115pF
C52 - 1240pF

Now, as I said, I used the components left over form previous builds, mostly the 80M components from the ATS4.
C66 is the original 40M 68pF SMD capacitor with a spare 47pF piggy backed on top!
C52 is the original 40M 680pF cap with a spare 560pF again in parallel.

I started with L12 at 20T and L13 with 23T but ended up with the figures above.

That gave 4 Watts O/p into a dummy load with a 10.7V supply.

I boxed it all back up last night.
I took it with me today on a SOTA activation to give it a whirl.
Unfortunately my 40M antenna didn't want to play ball and I couldn't get a good match with my tuner.
Regardless, I managed 4 QSO's all giving me 579, so it's obviously working OK and the receiver worked a treat.

I'll cut a new antenna in the morning and if I have time give it another spin.

So that's it folks. I have a 20/60 working MTR.
Thanks to everyone who has helped out and shout if you need any further info.

Today's outing, if your interested!
https://www.facebook.com/media/set/?set=a.10200549165840565.2198468.1501105668&type=1&l=cb435cc935

Pete,
G4ISJ

10346. Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-11 20:46:37 UTC
From: jgaffke
Topic: 10308 Message: 10346

Pete, great to hear you got it working! Thanks for the update.
I'd guess there's something more going on here than trace capacitance.
Maybe somebody with a healthy jig could try adding caps till it fails.

The Launchpad software was apparently written to give a nice demo,
not to help debug the many problems that always seem to pop up.
The error messages are pretty generic. I'd be a lot happier with
Launchpad if TI could spare a man-week to build a simple but robust
binary loader.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, Peter Martin wrote:
> So the answer is that it doesn't like taking a feed off the DIP header. I
> expect the extra capacitance between the tracks makes a difference.

10347. F.S, HG-102 Sig Gen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-11 21:51:49 UTC
From: Dale Putnam
Topic: 10347 Message: 10347

I've a nice HG-102 sig gen for sale, it works, and is what you'd expect. No.. not museum quality.. but then these are working units. It is priced at $75 shipped to your door. (US only) Outside US you get to pay the shipping.Photos available. I dont have a manual, but they are available online. email direct please.

Have a great day,

--... ...--

Dale - WC7S in Wy

10348. Re: [AT_Sprint] Re: Flashing the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-11 22:20:50 UTC
From: Steven Weber
Topic: 10308 Message: 10348

I decided to fix the broken jumper by just plugging it into the expansion DIP socket, after all the same signal is there, I know, I'd scoped it already.

If you removed the jumper blocks on the header pins, then the signal is no longer connected to the dip socket. Then you need to connect the jumpers to the "emulator" side of the pins.

KD1JV

10349. Re: [AT_Sprint] Changing Finals and Driver in ATS-3A

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 00:34:13 UTC
From: Johnny Matlock
Topic: 10342 Message: 10349

Hello George:
Just a quick FYI on removing the chips, order you some chip quick. It's a solder that has a low melting point, so you have more time to just pick the chip up before the solder sets!
I had tried two irons on a cap, and since one was grounded and one wasn't I got a little bite out of the deal!! Oh we'll not to try that again!
72
Johnny AC0BQ

On Sunday, February 10, 2013, radio_kx0r wrote:

> **
>
>
> Today I did an experiment that may be of interest to a few of you. I took
> my ATS-3A to the test bench, connected it regulated power, and recorded its
> power out, current consumption, and harmonic levels on the 20M band. This
> rig has served well, and there was nothing wrong with it.
>
> 14.06 MHz 5.1W 11.95V 800mA 2F -65db 3F -42 db
> It was more efficient on the lower bands, with similar numbers except for
> current, which falls somewhat with frequency.
>
> Then I took the board out of the altoids box, and removed the three 2N7000
> final mosfets. These were the original finals. I replaced them with BS170
> mosfets made by ON Semiconductor. They now have the flat sides up instead
> of down. I did nothing special to them - no copper heatsink as I used in
> my ATS-3B when I replaced those finals some time ago (one of the 2N7000's
> did short in that rig).
>
> Then I unsoldered the 74HC02 driver IC. This was harder than I expected.
> I tried to lift the legs with a steel wire, but the IC package partly
> disintegrated. I ended up cutting off some legs and removing the chip in
> bits. Fortunately the PCB was undamaged! I cleaned the pads and soldered
> in a new ON Semiconductor 74AC02. This is the driver used in the ATS-3B,
> ATS-4's, and MTR.
>
> After re-installing the pcb in the Altoids box, and after a quick check
> with a current-limited supply, I tested the modified transmitter. To my
> great relief the rig behaved almost exactly as before!
>
> *I did no re-adjustments to the filter boards, the toroids, etc*.
>
> 14.06 MHz 5.2W 11.94V 770mA 2F -67 db 3F -44 db 4F -54 db
> 7F ~98 MHz -51 db ~8 MHz -49 db ~98

> 10.11 MHz 5.3W 11.95V 690mA 2F -63 db 3F -43 db 4F -58 db
> 9F ~98 MHz -54 db close-in spurs -52 db
> 7.03 MHz 5.1W 11.95V 660mA 2F -56 db 3F -43 db 4F -59 db
> some other stuff -52 db close-in -56 db
> 3.56 MHz 5.3W 11.96V 610mA 2F -53 db 3F -44 db 4F -54 db
> 13F (~46 MHz) -52 db no close-in spurs seen
>
> My rig has a modified key-shaping circuit, and the keying wave is still
> nice (unchanged).
>
> The actual drain voltage is lower than the voltages above, because of the
> drops in the test leads used to power the rig, the schottky diode, the drop
> in the keying circuit, and the polyswitch I added for protection. So the
> efficiency of the PA is really good, and it improved a bit with the mods.
>
>
> *No complaints here! *
>
> So is it worth replacing the finals? Maybe not, until you have something
> happen to them - which may be never - then replace with the BS170's - *just
> remember that the pinouts are reversed*!
>
> Is it worth replacing the driver? Probably not, unless you're better at
> surface mount removal than I am. Since I did the whole job in one short
> session, I made no set of measurements to see if changing from the 74HC02
> to the 74AC02 made any difference. I also didn't examine the gate and
> drain waveforms to see if there was any real change.
>
> So that's the story today...continuous improvement, good luck, no miracles!
>
> 72
> KX0R
> George Carey Fuller
>
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>
>

10350. Re: [AT_Sprint] ATS4 External Controller

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 01:03:18 UTC
From: Lew Paceley
Topic: 10341 Message: 10350

Hello Katsu,
You have a very clever and low-cost idea! Thank you for sharing it. I wonder if a joystick controller switch from an old game console would work here too.
73,
Lew
K7GO
MT

On Sun, Feb 10, 2013 at 1:31 AM, katsumi.seto <katsumi.seto@...>wrote:

> For easier ATS4 operation, I built an ATS4 Controller with touch paddle as
> shown blow. Though I call it "Controller", it is nothing but simple
> directional tact switch box. I used ALPS SKQUAAA010 tact switch which has
> 4 contacts in one package, one for each direction. It is much easier to
> move aound the CW band than separate up and down tact swith.
>
> http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1401.jpg
> http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1402.jpg
> http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1403.jpg
> http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1404.jpg
> http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1405.gif
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> DE JA7QIL/KATSU
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> Yahoo! Groups Links
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10351. RE: [pfr3_group] F.S, HG-102 Sig Gen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 02:35:59 UTC
From: Dale Putnam
Topic: 10347 Message: 10351

Sorry, I missed putting this up as a Heathkit.. that makes it easier to Google...

Have a great day,

--... ...--
Dale - WC7S in Wy

To: qrp-l@...; at_sprint@yahoogroups.com; pfr3_group@yahoogroups.com; 4sqrp@...
From: daleputnam@...
Date: Mon, 11 Feb 2013 14:51:49 -0700
Subject: [pfr3_group] F.S, HG-102 Sig Gen

I've a nice HG-102 sig gen for sale, it works, and is what you'd expect. No.. not museum quality.. but then these are working units. It is priced at $75 shipped to your door. (US only) Outside US you get to pay the shipping.Photos available. I dont have a manual, but they are available online. email direct please.

Have a great day,

--... ...--

Dale - WC7S in Wy

10352. Re: ATS4 External Controller

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 04:40:52 UTC
From: katsumi.seto
Topic: 10341 Message: 10352

Hi Lew,
Probably it works. At the beginning, I was planning to use a Nintendo game controller but I could not find the junk. Only concern is that most of those game cross pads use conductive silicon rubber as contact which may have some resistance. The microprocessor of ATS4 monitors the voltage applied to pin#10 to determine which button is pressed. If there is some contact resistance, it may detect them wrongly. The contact resistance may be remarkable especially with "UP" button which require 0 or near zero resistance. Anyway, you may try and find it out.□@de ja7qil/katsu
--- In AT_Sprint@yahoogroups.com, Lew Paceley wrote:
>
> Hello Katsu,
> You have a very clever and low-cost idea! Thank you for sharing it. I
> wonder if a joystick controller switch from an old game console would work
> here too.
> 73,
> *Lew*
> K7GO
> MT
>
>
>
> On Sun, Feb 10, 2013 at 1:31 AM, katsumi.seto wrote:
>
> > For easier ATS4 operation, I built an ATS4 Controller with touch paddle as
> > shown blow. Though I call it "Controller", it is nothing but simple
> > directional tact switch box. I used ALPS SKQUAAA010 tact switch which has
> > 4 contacts in one package, one for each direction. It is much easier to
> > move aound the CW band than separate up and down tact swith.
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> > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1401.jpg
> > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1402.jpg
> > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1403.jpg
> > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1404.jpg
> > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1405.gif
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10353. Re: [AT_Sprint] RE: [pfr3_group] F.S, HG-102 Sig Gen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 05:25:15 UTC
From: Gil WA5YKK
Topic: 10347 Message: 10353

Dale;

Anyone who's too young to know that Heathkit made the HG series of gear doesn't need to be able to buy one, anyhow! I have another, newer brand of signal generator that I have yet to use, it's waiting for me to put a signal into something to test!

My next trick is to remove the Apple software of QuickTime (for the Amazon MP3 downloads, supposedly, and get rid of "funmoods" browser that clogs up my screen with pop-up ads, nearly made me pull my hair out until I found the two "applications" that gave me all that pestilence, then I reinstalled Firefox - and everything cleared up, even got Google back!
Gad, it's gonna be a relief to have the shack totally cleaned up, the computers controlling my Kachina ham rigs as well as decoding PSK31, will even have one 'puter NOT connected to the Internet, and thus not having any problems with bug and virus "machine destroyers".

If I lived exclusively in Yorktown, TX, and had all my fine gear set up there, I'd never have much of anything to do with email and the Internet at all. That idea was ongoing "many moons ago", then too many events and problems came up from out of nowhere, so I need to learn how to talk on SSB again, hook up my straight keys and paddles to the different rigs, go back to ham radio!

73's
Gil WA5YKK

On 2/11/2013 8:35 PM, Dale Putnam wrote:
>
> Sorry, I missed putting this up as a Heathkit..
> that makes it easier to Google...
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> ----------
> To: qrp-l@...; at_sprint@yahoogroups.com;
> pfr3_group@yahoogroups.com; 4sqrp@...
> From: daleputnam@...
> Date: Mon, 11 Feb 2013 14:51:49 -0700

> Subject: [pfr3_group] F.S, HG-102 Sig Gen
>
>
>
>
> I've a nice HG-102 sig gen for sale, it works, and is what you'd
> expect. No.. not museum quality.. but then these are working units. It
> is priced at $75 shipped to your door. (US only) Outside US you get to
> pay the shipping.Photos available. I dont have a manual, but they are
> available online. email direct please.
>
> Have a great day,
>
>
> --... ...--
> Dale - WC7S in Wy
>

10354. Re: [AT_Sprint] RE: [pfr3_group] F.S, HG-102 Sig Gen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 07:18:15 UTC
From: f6ddv
Topic: 10347 Message: 10354

Hello Gil
And hello to all
I confess that I am a bit like you, I am very annoyed by all those things that come with modern navigation software or downloads,

I return to simpler versions like XP or even Linux soon, as there often "bad gifts" unwanted and too many updates not useful, and indeed,

a PC is not connected to Internet radio is required.
Many options are useful things can young new users, but not to us the ham radio.
73s all
jean-paul F6DDV

> Message du 12/02/13 06:25
> De : "Gil WA5YKK"
> A : AT_Sprint@yahoogroups.com
> Copie à :
> Objet : Re: [AT_Sprint] RE: [pfr3_group] F.S, HG-102 Sig Gen

Dale;
>
> Anyone who's too young to know that Heathkit made the HG series of gear doesn't need to be able to buy one, anyhow! I have another, newer brand of signal generator that I have yet to use, it's waiting for me to put a signal into something to test!
>
> My next trick is to remove the Apple software of QuickTime (for the Amazon MP3 downloads, supposedly, and get rid of "funmoods" browser that clogs up my screen with pop-up ads, nearly made me pull my hair out until I found the two "applications" that gave me all that pestilence, then I reinstalled Firefox - and everything cleared up, even got Google back!
> Gad, it's gonna be a relief to have the shack totally cleaned up, the computers controlling my Kachina ham rigs as well as decoding PSK31, will even have one 'puter NOT connected to the Internet, and thus not having any problems with bug and virus "machine destroyers".
>
> If I lived exclusively in Yorktown, TX, and had all my fine gear set up there, I'd never have much of anything to do with email and the Internet at all. That idea was ongoing "many moons ago", then too many events and problems came up from out of nowhere, so I need to learn how to talk on SSB again, hook up my straight keys and paddles to the different rigs, go back to ham radio!
>
> 73's
> Gil WA5YKK

> On 2/11/2013 8:35 PM, Dale Putnam wrote:
>

Sorry, I missed putting this up as a Heathkit..
> that makes it easier to Google...
>
> Have a great day,
>
> --... ...-- Dale - WC7S in Wy
>

To: qrp-l@...; at_sprint@yahoogroups.com; pfr3_group@yahoogroups.com; 4sqrp@...
> From: daleputnam@hotmail.com
> Date: Mon, 11 Feb 2013 14:51:49 -0700
> Subject: [pfr3_group] F.S, HG-102 Sig Gen
>

I've a nice HG-102 sig gen for sale, it works, and is what you'd expect. No.. not museum quality.. but then these are working units. It is priced at $75 shipped to your door. (US only) Outside US you get to pay the shipping.Photos available. I dont have a manual, but they are available online. email direct please.
>
> Have a great day,
> --... ...--
> Dale - WC7S in Wy

>

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.

>

10355. Re: [AT_Sprint] Re: ATS4 External Controller

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 07:03:01 UTC
From: Roger Critchlow
Topic: 10341 Message: 10355

I bought a baggie of these:

http://dx.com/p/mt-008a-multi-function-switches-10-piece-pack-122745

a while ago, thinking they were NSEW+Push joysticks, probably because the description said that when I ordered. I just soldered one onto a SMD prototype board and checked the continuity, and that is exactly what they are. One pad is common, and the other five short to common as the stick is manipulated, adjacent directions can short at the same time. Less than an ohm contact resistance.

Searching "diy" on Dealextreme brings up a lot of other stuff,

-- rec -- ad5dz --

On Mon, Feb 11, 2013 at 9:40 PM, katsumi.seto <katsumi.seto@...>wrote:

> Hi Lew,
> Probably it works. At the beginning, I was planning to use a Nintendo
> game controller but I could not find the junk. Only concern is that most
> of those game cross pads use conductive silicon rubber as contact which may
> have some resistance. The microprocessor of ATS4 monitors the voltage
> applied to pin#10 to determine which button is pressed. If there is some
> contact resistance, it may detect them wrongly. The contact resistance may
> be remarkable especially with "UP" button which require 0 or near zero
> resistance. Anyway, you may try and find it out. @de ja7qil/katsu
> --- In AT_Sprint@yahoogroups.com, Lew Paceley wrote:
> >
> > Hello Katsu,
> > You have a very clever and low-cost idea! Thank you for sharing it. I
> > wonder if a joystick controller switch from an old game console would
> work
> > here too.
> > 73,
> > *Lew*
> > K7GO
> > MT
> >
> >
> >
> > On Sun, Feb 10, 2013 at 1:31 AM, katsumi.seto wrote:
> >
> > > For easier ATS4 operation, I built an ATS4 Controller with touch
> paddle as
> > > shown blow. Though I call it "Controller", it is nothing but simple
> > > directional tact switch box. I used ALPS SKQUAAA010 tact switch which

> has
> > > 4 contacts in one package, one for each direction. It is much easier to
> > > move aound the CW band than separate up and down tact swith.
> > >
> > > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1401.jpg
> > > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1402.jpg
> > > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1403.jpg
> > > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1404.jpg
> > > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1405.gif
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10356. Digital Camo MTR label

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 17:23:30 UTC
From: steve_wg0at
Topic: 10356 Message: 10356

Nothing wrong with Randy/KS4L's old label but since I was making mods to his old MTR now mine I decided to make a new label. It's in the MTR folder as DIGcamoLABEL.jpg

Cheers, Steve wGOAT/R&P

10357. Re: Digital Camo MTR label

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 17:58:54 UTC
From: steve_wg0at
Topic: 10356 Message: 10357

I meant to say in the FILES section in the MTR folder or
http://f1.grp.yahoofs.com/v1/EHUaUQM03ZReAfjK3M7zT70iyWGFM7VxElP1hchi1D_1YF7DG7KGjFFa-h7QtCdz-K5D1gcPTrQTQbf7zYOIkyUKa9i99zWw/MTR%20/DIGcamoLABEL.jpg

--- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
>
> Nothing wrong with Randy/KS4L's old label but since I was making mods to his old MTR now mine I decided to make a new label. It's in the MTR folder as DIGcamoLABEL.jpg
>
> Cheers, Steve wGOAT/R&P
>

10358. Re: [AT_Sprint] Digital Camo MTR label

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 18:05:35 UTC
From: Johnny Matlock
Topic: 10356 Message: 10358

Pretty Cool, Steve!
Don't drop it in the grass, you will never find it!!
72
Johnny AC0BQ

On Tuesday, February 12, 2013, steve_wg0at wrote:

> **
>
>
> I meant to say in the FILES section in the MTR folder or
>
> http://f1.grp.yahoofs.com/v1/EHUaUQM03ZReAfjK3M7zT70iyWGFM7VxElP1hchi1D_1YF7DG7KGjFFa-h7QtCdz-K5D1gcPTrQTQbf7zYOIkyUKa9i99zWw/MTR%20/DIGcamoLABEL.jpg
>
> --- In AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint%40yahoogroups.com');>, "steve_wg0at" wrote:
> >
> > Nothing wrong with Randy/KS4L's old label but since I was making mods to
> his old MTR now mine I decided to make a new label. It's in the MTR folder
> as DIGcamoLABEL.jpg
> >
> > Cheers, Steve wGOAT/R&P
> >
>
>
>

10359. Re: [AT_Sprint] RE: [pfr3_group] F.S, HG-102 Sig Gen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 20:59:06 UTC
From: Ed Weal
Topic: 10347 Message: 10359

On 2/11/2013 9:25 PM, Gil WA5YKK wrote:
>
> Dale;
>
> Anyone who's too young to know that Heathkit made the HG series of
> gear doesn't need to be able to buy one, anyhow! I have another, newer
> brand of signal generator that I have yet to use, it's waiting for me
> to put a signal into something to test!
>
> My next trick is to remove the Apple software of QuickTime (for the
> Amazon MP3 downloads, supposedly, and get rid of "funmoods" browser
> that clogs up my screen with pop-up ads, nearly made me pull my hair
> out until I found the two "applications" that gave me all that
> pestilence, then I reinstalled Firefox - and everything cleared up,
> even got Google back!
> Gad, it's gonna be a relief to have the shack totally cleaned up,
> the computers controlling my Kachina ham rigs as well as decoding
> PSK31, will even have one 'puter NOT connected to the Internet, and
> thus not having any problems with bug and virus "machine destroyers".
>
> If I lived exclusively in Yorktown, TX, and had all my fine gear set
> up there, I'd never have much of anything to do with email and the
> Internet at all. That idea was ongoing "many moons ago", then too many
> events and problems came up from out of nowhere, so I need to learn
> how to talk on SSB again, hook up my straight keys and paddles to the
> different rigs, go back to ham radio!
>
> 73's
> Gil WA5YKK
>
>
>
> On 2/11/2013 8:35 PM, Dale Putnam wrote:
>>
>> Sorry, I missed putting this up as a Heathkit..
>> that makes it easier to Google...
>>
>> Have a great day,
>>
>>
>> --... ...-- Dale - WC7S in Wy
>>
>>
>>
>>

>> ----------
>> To: qrp-l@...; at_sprint@yahoogroups.com;
>> pfr3_group@yahoogroups.com; 4sqrp@...
>> From: daleputnam@...
>> Date: Mon, 11 Feb 2013 14:51:49 -0700
>> Subject: [pfr3_group] F.S, HG-102 Sig Gen
>>
>>
>>
>>
>> I've a nice HG-102 sig gen for sale, it works, and is what you'd
>> expect. No.. not museum quality.. but then these are working units.
>> It is priced at $75 shipped to your door. (US only) Outside US you
>> get to pay the shipping.Photos available. I dont have a manual, but
>> they are available online. email direct please.
>>
>> Have a great day,
>>
>>
>> --... ...--
>> Dale - WC7S in Wy
>>
>
>
Thank you Dave! I have been irked by the ads covering up my news. I
disabled QuickTime and they are gone.
I was going to ask Mozilla about it and up you popped with the answer!
Thanks again and I hope you have a very good day!
Ed K6QLH

10360. Re: [AT_Sprint] Digital Camo MTR label

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-12 21:22:29 UTC
From: Randy Moore
Topic: 10356 Message: 10360

Very cool! So you got it converted over to 30m?

73,
Randy, KS4L

On Feb 12, 2013, at 11:23 AM, "steve_wg0at" <qrp.wg0at@...> wrote:

> Nothing wrong with Randy/KS4L's old label but since I was making mods to his old MTR now mine I decided to make a new label. It's in the MTR folder as DIGcamoLABEL.jpg
>
> Cheers, Steve wGOAT/R&P
>
>

10361. Re: Digital Camo MTR label

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-13 12:40:10 UTC
From: steve_wg0at
Topic: 10356 Message: 10361

No yet, Randy ...it's working it's way up the list still. ;-) I've all the parts though ...just need to find the time from having too much fun doing other stuff.

--- In AT_Sprint@yahoogroups.com, Randy Moore wrote:
>
> Very cool! So you got it converted over to 30m?
>
> 73,
> Randy, KS4L
>
> On Feb 12, 2013, at 11:23 AM, "steve_wg0at" wrote:
>
> > Nothing wrong with Randy/KS4L's old label but since I was making mods to his old MTR now mine I decided to make a new label. It's in the MTR folder as DIGcamoLABEL.jpg
> >
> > Cheers, Steve wGOAT/R&P
> >
> >
>

10362. New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-13 14:57:28 UTC
From: AT_Sprint@yahoogroups.com
Topic: 154 Message: 10362

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the AT_Sprint
group.

File : /MTR /DC3label.jpg
Uploaded by : steve_wg0at <qrp.wg0at@...>
Description : Goat's 30/20m DigCAMO label (revised)

You can access this file at the URL:
http://groups.yahoo.com/group/AT_Sprint/files/MTR%20/DC3label.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

steve_wg0at <qrp.wg0at@...>

10363. Re: New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-13 15:00:52 UTC
From: steve_wg0at
Topic: 154 Message: 10363

I revised my MTR label adding earbud, paddle and power symbols plu tweaked the text spacing for the band change switches ....based on some input from folks!
73, Steve/wGOAT-R&P

--- In AT_Sprint@yahoogroups.com, AT_Sprint@yahoogroups.com wrote:
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the AT_Sprint
> group.
>
> File : /MTR /DC3label.jpg
> Uploaded by : steve_wg0at
> Description : Goat's 30/20m DigCAMO label (revised)
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/AT_Sprint/files/MTR%20/DC3label.jpg
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
> Regards,
>
> steve_wg0at
>

10364. Re: New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-13 16:25:24 UTC
From: ke7ngo11
Topic: 1459 Message: 10364

Are you going to add your Rigs serial number? What did you use to create it?

--- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:
>
> I revised my MTR label adding earbud, paddle and power symbols plu tweaked the text spacing for the band change switches ....based on some input from folks!
> 73, Steve/wGOAT-R&P
>
> --- In AT_Sprint@yahoogroups.com, AT_Sprint@yahoogroups.com wrote:
> >
> >
> > Hello,
> >
> > This email message is a notification to let you know that
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> > group.
> >
> > File : /MTR /DC3label.jpg
> > Uploaded by : steve_wg0at
> > Description : Goat's 30/20m DigCAMO label (revised)
> >
> > You can access this file at the URL:
> > http://groups.yahoo.com/group/AT_Sprint/files/MTR%20/DC3label.jpg
> >
> > To learn more about file sharing for your group, please visit:
> > http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
> > Regards,
> >
> > steve_wg0at
> >
>

10365. F.S. Heathkit HG-102 Sig Gen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-13 16:53:04 UTC
From: Dale Putnam
Topic: 10347 Message: 10365

I've a nice HG-102 sig gen for sale, it works, and is what you'd expect. No.. not museum quality.. but then these are working units. It is priced at $75 shipped to your door. (US only) Outside US you get to pay the shipping.Photos available. I dont have a manual, but they are available online. email direct please, before it goes to ebay.

Have a great day,

--... ...--

Dale - WC7S in Wy

10366. Re: New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-13 20:58:59 UTC
From: steve_wg0at
Topic: 1459 Message: 10366

I've no need for SN. Created in PhotoShop. Cheers, Steve wGOAT

--- In AT_Sprint@yahoogroups.com, "ke7ngo11" wrote:
>
> Are you going to add your Rigs serial number? What did you use to create it?
>
> --- In AT_Sprint@yahoogroups.com, "steve_wg0at" wrote:

10367. Re: [AT_Sprint] Re: ATS4 External Controller

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-14 23:46:51 UTC
From: Lew Paceley
Topic: 10341 Message: 10367

Thanks guys for some good ideas on the "joystick" Much appreciated.

73,
Lew
K7GO
MT

On Tue, Feb 12, 2013 at 12:03 AM, Roger Critchlow <rec@...> wrote:

>
>
> I bought a baggie of these:
>
> http://dx.com/p/mt-008a-multi-function-switches-10-piece-pack-122745
>
> a while ago, thinking they were NSEW+Push joysticks, probably because the
> description said that when I ordered. I just soldered one onto a SMD
> prototype board and checked the continuity, and that is exactly what they
> are. One pad is common, and the other five short to common as the stick is
> manipulated, adjacent directions can short at the same time. Less than an
> ohm contact resistance.
>
> Searching "diy" on Dealextreme brings up a lot of other stuff,
>
> -- rec -- ad5dz --
>
>
> On Mon, Feb 11, 2013 at 9:40 PM, katsumi.seto <katsumi.seto@...>wrote:
>
>> Hi Lew,
>> Probably it works. At the beginning, I was planning to use a Nintendo
>> game controller but I could not find the junk. Only concern is that most
>> of those game cross pads use conductive silicon rubber as contact which may
>> have some resistance. The microprocessor of ATS4 monitors the voltage
>> applied to pin#10 to determine which button is pressed. If there is some
>> contact resistance, it may detect them wrongly. The contact resistance may
>> be remarkable especially with "UP" button which require 0 or near zero
>> resistance. Anyway, you may try and find it out. @de ja7qil/katsu
>> --- In AT_Sprint@yahoogroups.com, Lew Paceley wrote:
>> >
>> > Hello Katsu,
>> > You have a very clever and low-cost idea! Thank you for sharing it. I
>> > wonder if a joystick controller switch from an old game console would
>> work
>> > here too.
>> > 73,

>> > *Lew*
>> > K7GO
>> > MT
>> >
>> >
>> >
>> > On Sun, Feb 10, 2013 at 1:31 AM, katsumi.seto wrote:
>> >
>> > > For easier ATS4 operation, I built an ATS4 Controller with touch
>> paddle as
>> > > shown blow. Though I call it "Controller", it is nothing but simple
>> > > directional tact switch box. I used ALPS SKQUAAA010 tact switch
>> which has
>> > > 4 contacts in one package, one for each direction. It is much easier
>> to
>> > > move aound the CW band than separate up and down tact swith.
>> > >
>> > > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1401.jpg
>> > > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1402.jpg
>> > > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1403.jpg
>> > > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1404.jpg
>> > > http://homepage3.nifty.com/VYG06610/A1C/ATS4/JA7QIL_ATS4_1405.gif
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10368. So… want some Goats for SOTA fun?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-15 23:22:23 UTC
From: Phil Townsend Lontz
Topic: 10341 Message: 10368

Watch this:

http://theweek.com/article/index/240240/the-weeks-best-of-the-internet

10370. MTR AGC Pops and Cure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-17 04:35:16 UTC
From: radio_kx0r
Topic: 10369 Message: 10370

Let's try this again....

MTR OPS,

After I got my MTR going, I noticed that occasionally I was hearing pops on the leading edges of CW signals. This is a common issue with audio-derived AGC circuits, and much has been written about this subject. I found a partial cure for the pops, good enough for my ears, and it's really easy.

Pops occur because audio-derived AGC occurs after the fact, and there is a delay. If a really strong signal suddenly comes through the receiver, the gain is high, so the first part of the signal gets through to the output before the AGC has time to cut the gain and level the output. On a scope there are sharp peaks on the leading edge(s) of the first strong signals. We can clip these sharp peaks and reduce the impact on our ears. If the clipper is placed before the MTR's audio filter, which is in the output stage, the effects of clipping are somewhat mitigated.

There already is a clipper on U3a; Steve has used this circuit in most of the ATS rigs. I believe Its purpose is to clip really large transients before they go through the audio chain. It apparently has little effect on the AGC pops, probably because the normal signal level in U3a is too low to push much through clipper diodes D1a and D1b.

My clipper consists of two reverse-parallel 1N4148 diodes connected between pins 2 and 5 of U4 (LM386) intermediate/AGC amp. A 0.1uF blocking capacitor also is included to prevent the DC level of the output from connecting to input pin 2. U4 is not a normal op amp, so we need the blocking cap.

The clipper certainly reduces the pops, but at the same time it prevents these pops from propagating full-strength through U4 and then to Q2, Q1, and around the AGC loop. So the clipper actually slows down the attack of the AGC, which is not the best thing. So we trade one problem for another. It's a compromise. This clipper does not change the sound of weak or normal signals - it only affects signals that are suddenly strong.

If you don't like the pops, try this circuit. I suggest you just tack it in so you can connect and disconnect it while listening to some strong signals. Out here my favorite is W1AW on 40M. Let your ears decide.

I'll post the circuit in the Files section here.

Perhaps someone will create a better AGC mod and post it here.

72/73
George Carey Fuller
KX0R

10371. New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-17 04:42:33 UTC
From: AT_Sprint@yahoogroups.com
Topic: 154 Message: 10371

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the AT_Sprint
group.

File : /MTR AGC MOD KX0R.pdf
Uploaded by : radio_kx0r <careyfuller@...>
Description : KX0R MTR AGC MOD

You can access this file at the URL:
http://groups.yahoo.com/group/AT_Sprint/files/MTR%20AGC%20MOD%20KX0R.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

radio_kx0r <careyfuller@...>

10372. Switches on MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-17 17:59:17 UTC
From: radio_kx0r
Topic: 10372 Message: 10372

MTR Guys,

I just cut the plastic actuators on my MTR so they're about 1mm high now.

Just take a sharp pair of flush cutters and cut them neatly.

Why?

The actuators are meant to go through a moderately thick panel. With an Altoids box they're too high. They're likely to be broken off in the field or in the pack. If they're broken, they will probably break off too low to be easily moved.

Also they're easily bumped when the rig is on.

They feel nice at 1 mm. Nothing is lost but a little bit of plastic...
Your choice.

Thanks to whoever it was that posted this vulnerability earlier...

72
George Carey Fuller
KX0R

10373. ATS4 graphic

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-20 14:58:43 UTC
From: cloud runner
Topic: 10373 Message: 10373

Does anyone have a one-to-one graphic of the ATS4 ???????? The nice graphci in the manual in PDF is small, and I can't extract it to re-size it. I want to do a decal graphic of it in actual size to put over a project am making.

Steve?

tnx

Fred - kt5z

10374. MTR enclosures

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-20 18:34:47 UTC
From: William
Topic: 10374 Message: 10374

I'm building a MTR from the last run and am at the point of mounting the tac switches. It occured to me that the new enclosure offered by Steve might be thicker than an Altoid's tin.
Will the length of the switches be enough to pass through the new box or should I wait to get longer ones?

Bill, WV1N

10375. Re: [AT_Sprint] MTR enclosures

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-20 18:41:26 UTC
From: Steven Weber
Topic: 10374 Message: 10375

The switches you have now will be fine.

KD1JV

> I'm building a MTR from the last run and am at the point of mounting the
> tac switches. It occured to me that the new enclosure offered by Steve
> might be thicker than an Altoid's tin.
> Will the length of the switches be enough to pass through the new box or
> should I wait to get longer ones?
>

10376. Re: FS: KD1JV QBSA. (Sort of)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-22 18:45:10 UTC
From: n8kan
Topic: 9548 Message: 10376

The thread for your QBSA never says it sold.
Is it still available?
Please advise.
Thank you.

N8KAN

--- In AT_Sprint@yahoogroups.com, NZ8J <nz8j@...> wrote:
>
> I recently bought a QBSA assembled board from another ham to use with a ATS-3B that I should receive shortly.
>
> To make a long story short it was not in the condition I was expecting. I knew the display was attached by ribbon cable to allow for more mounting options but I wasn't expecting the poor assembly job, lots of board resoldering jobs resulting in an ugly looking board. One wire from the toroid is broke off the board where it was soldered. It just generally needs to be completely cleaned up or rebuilt. That's not something I am prepared to undertake.
>
> The good news is that when applying power the display lights up in the freq position with flickering numbers I contribute to not having an input. When cycling through the power and R power positions it lights up and the R shows up in the reverse power position.
>
> That's the extent I know of it, it is sold as-is obviously. I paid way too much for it. I would like to get $50 for it shipped in the US, paypal preferred, but will take US postal money order.
>
> I can send pictures of it tonight if no one says they will take it beforehand.
>
> Thanks
> Tim
> NZ8J
>

10377. Re: [AT_Sprint] MTR enclosures

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-22 20:04:13 UTC
From: Gil WA5YKK
Topic: 10374 Message: 10377

To All;

Allow me to change the thread of this group, and ask if anyone has any idea of where I can find a mcroSD 32 GB memory card, I've been searching the whole Internet for that little chip, to give my "mp3 music player" device a lot of room. The one I got in, with very little input from the people who make the device, turned out to be for "mobile use", and the indicator on the screen didn't recognize it! I'm totally mystified, and now have a piece of thumbnail-size artwork to put on my bulletin board, "caveat emptor"!

If anyone has an idea, please respond directly, off the group.

Thanks, 73's
Gil WA5YKK

10378. 32 gb microSD

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-22 21:07:45 UTC
From: n1rx
Topic: 10374 Message: 10378

Gil- probably should have started a new thread instead of hijacking another.

As for the 32gb microSD card, that's a bit like asking "where can I get batteries"? They are everywhere. I bought a couple 32gB microSD class10 samsungs off eBay and they work fine in my Asus TF300T tablet. They are available from eBay, NewEgg, Amazon, Staples, and just about any other technology place you can think off. The one you have may be fine, just not formatted properly for your MP3 player (FAT, FAT32, NTFS, etc.) Also, are you sure your player can recognize a card that large? some older ones can't.

GL,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, Gil WA5YKK <WA5YKK@...> wrote:
>
> To All;
>
> Allow me to change the thread of this group, and ask if anyone has any
> idea of where I can find a mcroSD 32 GB memory card, I've been searching
> the whole Internet for that little chip, to give my "mp3 music player"
> device a lot of room. The one I got in, with very little input from the
> people who make the device, turned out to be for "mobile use", and the
> indicator on the screen didn't recognize it! I'm totally mystified, and
> now have a piece of thumbnail-size artwork to put on my bulletin board,
> "caveat emptor"!
>
> If anyone has an idea, please respond directly, off the group.
>
> Thanks, 73's
> Gil WA5YKK
>

10379. Re: [AT_Sprint] 32 gb microSD

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-22 21:24:50 UTC
From: Steven Weber
Topic: 10374 Message: 10379

Also, are you sure your player can recognize a card that large? some older ones can't.
>
That would be my guess too. I have a couple year old camara which choked on a 8 gig SD card.

Steve KD1JV

10380. Re: [AT_Sprint] 32 gb microSD

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-22 21:48:42 UTC
From: Gil WA5YKK
Topic: 10374 Message: 10380

Steve;

Thanks for the return, and the chip I got in a few days ago does fit fine, I'm now wondering if the contacts in the "ZEN Style M300" player are able to mate with the fingernail-size card, or if the card is OK for FAT64, NTFS, whatever. The little advice paper makes note of 32 gb, which is why I went for that size. I'm a bit astounded, the printing on the back of that palm-sized player has 16 GB on it, so it can handle a lot more MP3 files than I've already put on it. All I wanted to do was see how far I can push this little thing, then a devilish idea came up, it can do "Bluetooh", I decided to fire up my Jambox system for my cellphone, then see if it could handle a music stream. That didn't happen, guess that they're on different frequencies, so the other idea will take some work - I recalled a now-vintage idea of using a remote RF system to listen in on one of my HF rigs, have an earphone going so I could keep track of anyone on a RACES or ARES net frequency, while I'm 100 feet out in my yard..
That might be stretching things a lot, but it's a nice idea, considering the cost of all this.

Yep, I have to be extra careful about buying Asian made devices that "can take expansion chips", make sure they're the same vintage as the thing I got, my digital camera has the big chip that I plugged in, does nicely. I'd swear that the Asians have "obsolescence" built into every item they make and send to us!

Tnx, 73's, I've got to think about the rig(s) that need attention, along with antennas and finishing out the upgrade work on my cabins.

Gil WA5YKK

On 2/22/2013 3:24 PM, Steven Weber wrote:
>
> Also, are you sure your player can recognize a card that large? some
> older
> ones can't.
> >
> That would be my guess too. I have a couple year old camara which
> choked on
> a 8 gig SD card.
>
> Steve KD1JV
>

10381. Re: 32 gb microSD

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-22 22:10:33 UTC
From: n1rx
Topic: 10374 Message: 10381

Gil- Of course it "fits fine", it's a microSD- that describes the size, and "pinout", data transfer, etc. The issue about handling 32 gB is not physical size, but data capacity.

As for the Zen- it's made by Creative, a well known tech company that made it's name originally in Computer soundcards. "SoundBlaster" is their line of cards, you may have heard of them.

Getting back to the Zen- Creative's own webpage (found by a simple Google search on "Zen M300"), shows certain cards are compatible, some may not be. Here's their web page that discusses this:

http://support.creative.com/kb/ShowArticle.aspx?sid=95138

Perhaps this will help you.
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, Gil WA5YKK <WA5YKK@...> wrote:
>
> Steve;
>
> Thanks for the return, and the chip I got in a few days ago does fit
> fine, I'm now wondering if the contacts in the "ZEN Style M300" player
> are able to mate with the fingernail-size card, or if the card is OK for
> FAT64, NTFS, whatever. The little advice paper makes note of 32 gb,
> which is why I went for that size. I'm a bit astounded, the printing on
> the back of that palm-sized player has 16 GB on it, so it can handle a
> lot more MP3 files than I've already put on it. All I wanted to do was
> see how far I can push this little thing, then a devilish idea came up,
> it can do "Bluetooh", I decided to fire up my Jambox system for my
> cellphone, then see if it could handle a music stream. That didn't
> happen, guess that they're on different frequencies, so the other idea
> will take some work - I recalled a now-vintage idea of using a remote RF
> system to listen in on one of my HF rigs, have an earphone going so I
> could keep track of anyone on a RACES or ARES net frequency, while I'm
> 100 feet out in my yard..
> That might be stretching things a lot, but it's a nice idea,
> considering the cost of all this.
>
> Yep, I have to be extra careful about buying Asian made devices that
> "can take expansion chips", make sure they're the same vintage as the
> thing I got, my digital camera has the big chip that I plugged in, does
> nicely. I'd swear that the Asians have "obsolescence" built into every
> item they make and send to us!
>
> Tnx, 73's, I've got to think about the rig(s) that need attention, along

> with antennas and finishing out the upgrade work on my cabins.
>
> Gil WA5YKK
>
>
>
> On 2/22/2013 3:24 PM, Steven Weber wrote:
> >
> > Also, are you sure your player can recognize a card that large? some
> > older
> > ones can't.
> > >
> > That would be my guess too. I have a couple year old camara which
> > choked on
> > a 8 gig SD card.
> >
> > Steve KD1JV
> >
>

10382. Re: [AT_Sprint] Re: 32 gb microSD

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-22 22:35:19 UTC
From: Gil WA5YKK
Topic: 10374 Message: 10382

Bruce;

I've been using the Creative Labs sound cards for a very long time, very fine systems for music and sound effects, "surround sound", et all. When their players first came out, I got so into them that I now have two of the originals, their only problem is using up batteries. Both have FM receivers built in (!) and I need that for weather reports here in "hurricane alley".

Looked twice at the contacts inside the little square player, same number as on the memory card, so this is going to be a mystery to figure out.

I'll look at and print out the page, might make a difference somehow.

Thanks for the extra bit of advice, I'm feeling like a caveman now!

73's
Gil WA5YKK

On 2/22/2013 4:10 PM, n1rx wrote:
>
> Gil- Of course it "fits fine", it's a microSD- that describes the
> size, and "pinout", data transfer, etc. The issue about handling 32 gB
> is not physical size, but data capacity.
>
> As for the Zen- it's made by Creative, a well known tech company that
> made it's name originally in Computer soundcards. "SoundBlaster" is
> their line of cards, you may have heard of them.
>
> Getting back to the Zen- Creative's own webpage (found by a simple
> Google search on "Zen M300"), shows certain cards are compatible, some
> may not be. Here's their web page that discusses this:
>
> http://support.creative.com/kb/ShowArticle.aspx?sid=95138
>
> Perhaps this will help you.
> 73,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>,
> Gil WA5YKK wrote:
> >
> > Steve;
> >
> > Thanks for the return, and the chip I got in a few days ago does fit

> > fine, I'm now wondering if the contacts in the "ZEN Style M300" player
> > are able to mate with the fingernail-size card, or if the card is OK
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> > FAT64, NTFS, whatever. The little advice paper makes note of 32 gb,
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> > lot more MP3 files than I've already put on it. All I wanted to do was
> > see how far I can push this little thing, then a devilish idea came up,
> > it can do "Bluetooh", I decided to fire up my Jambox system for my
> > cellphone, then see if it could handle a music stream. That didn't
> > happen, guess that they're on different frequencies, so the other idea
> > will take some work - I recalled a now-vintage idea of using a
> remote RF
> > system to listen in on one of my HF rigs, have an earphone going so I
> > could keep track of anyone on a RACES or ARES net frequency, while I'm
> > 100 feet out in my yard..
> > That might be stretching things a lot, but it's a nice idea,
> > considering the cost of all this.
> >
> > Yep, I have to be extra careful about buying Asian made devices that
> > "can take expansion chips", make sure they're the same vintage as the
> > thing I got, my digital camera has the big chip that I plugged in, does
> > nicely. I'd swear that the Asians have "obsolescence" built into every
> > item they make and send to us!
> >
> > Tnx, 73's, I've got to think about the rig(s) that need attention,
> along
> > with antennas and finishing out the upgrade work on my cabins.
> >
> > Gil WA5YKK
> >
>

10383. FS: ATS-4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-24 23:05:43 UTC
From: Gus
Topic: 10383 Message: 10383

For sale: ATS-4, original production run, assembled, with an audio mod designed by Thomas Kuehl, AC7A. $200 shipped to US.

Please contact me off-list if interested.

73, Gus, N1CCW

10384. Re: 80/160 M rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-25 17:35:46 UTC
From: jgaffke
Topic: 10254 Message: 10384

Very nice! A 10W PEP 80M SSB rig for $100, with enclosure.
Might suck away a few MTR customers to where it takes
a few more hours to sell out.
Note that you can choose which panel decals to stick on.
Jerry, KE7ER
--- In message 10283, "Steven Weber" <steve.kd1jv@...> wrote:
>... got side tracked .. look for something new from QRPKITS ...

10385. RE: [QRP-L] Recommendation wanted: Best simple 40M QRP kit/project with VFO

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-28 03:10:43 UTC
From: Dale Putnam
Topic: 10385 Message: 10385

There is a whole lot of air time spent attempting to attain "THE BEST".... one of these.. or those. Now.. with the understanding that "THE BEST" is a personal preference sort of thing. There are ways to measure the ability of this radio, or that radio.. to ascertain which does a specific task best.. as measured...this way... with this equipment, that is NIST traceable standard. Most folks don't want to do that type or detailed a process to measure "THE BEST". So... that being said, I will put it this way.I have measured a large number of QRPkits and KD1JV kits, and Elecraft kits.Each has its own footprint, and each holds its own in its own special way. IF I had to pick a particular rx... that hears the most sensitive, with the least amount of background noise or noise floor.Specifics please.... The MDS ... from the KD1JV kits will usually come out better by a db or maybe two over the more sophisticated radios. HOWEVER.. the KD1JV designs rely upon an effective xtal filter to keep the audio controlled when the band is crowded. The K1, K2 Elecraft radios utilize a whole lot more than that.. and it really is unfair to compare a multi hundred dollar radio to one that prices very nearly a single hundred dollar bill. Yet... you will be surprised, by the amount of contacts you can make with the radio that you got for $100 or so, if it is a KD1JV design, or one from QRPkits. Now, to be fair, I haven't measured enough of the "other" kits to make a full blown side by side comparison... if some one wants to see that... I intend to keep the specs and will present that at a later date. I think I would prefer a TriBander.. or PFR3.. for the field work, unless I am cramped for space or weight.. then the MTR or ATS series jump to the front, and usually into the pocket. The new Survivor, hasn't been tested.. but the lineage suggests it will be a player to contend with. Is anyone interested in deeper more specific details? I may be able to present something like that, later.. with more radios to average in, it becomes more valuable.

Have a great day,

--... ...--
Dale - WC7S in Wy

> Date: Wed, 27 Feb 2013 18:54:34 -0800
> From: jmlowman@sbcglobal.net
> To: qrp-l@...
> Subject: Re: [QRP-L] Recommendation wanted: Best simple 40M QRP kit/project with VFO
>
> That said, I do have to put in a good word for my friend, Doug
> Hendricks, with his kits at qrpkits.com
> The manuals are downloadable, and the instructions are very much as good
> as the Heathkit manuals of days gone by.
>
> 72/73 de Jim - AD6CW
>
> On 2/27/2013 6:39 PM, Brian wrote:
> > Jim,

> >
> > Nail on the head. That radio with that book is a winning combo. The
> > book is about $25 used on Amazon if frugality is a must.
> >
> > I just realized my NC40A is 15 years old now...I built it in 1998...so
> > I got it out and fired it up and just had a nice 15 minute CW QSO with
> > it...pumping out all of 1 watt to the attic dipole. It's the rig I
> > started my CW QRP journey with and the first radio I ever built.
> > Works good, lasts long time.
> >
> > 72 de KB9BVN
>
> _____
> QRP-L mailing list
> Home: http://mailman.qth.net/mailman/listinfo/qrp-l
> Help: http://mailman.qth.net/mmfaq.htm
> Post: mailto:QRP-L@...
>
> This list hosted by: http://www.qsl.net
> Please help support this email list: http://www.qsl.net/donate.html

10386. Re: [QRP-L] Recommendation wanted: Best simple 40M QRP kit/project with VFO

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-28 03:25:06 UTC
From: k7tp
Topic: 10385 Message: 10386

What is the "survivor" radio?

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
The new Survivor, hasn't been tested.. but the lineage suggests it will be a player to contend with. Is anyone interested in deeper more specific details? I may be able to present something like that, later.. with more radios to average in, it becomes more valuable.
>
> Have a great day,
>
>
> --... ...--
> Dale - WC7S in Wy
>
>
>
> > Date: Wed, 27 Feb 2013 18:54:34 -0800
> > From: jmlowman@...
> > To: qrp-l@...
> > Subject: Re: [QRP-L] Recommendation wanted: Best simple 40M QRP kit/project with VFO
> >
> > That said, I do have to put in a good word for my friend, Doug
> > Hendricks, with his kits at qrpkits.com
> > The manuals are downloadable, and the instructions are very much as good
> > as the Heathkit manuals of days gone by.
> >
> > 72/73 de Jim - AD6CW
> >
> > On 2/27/2013 6:39 PM, Brian wrote:
> > > Jim,
> > >
> > > Nail on the head. That radio with that book is a winning combo. The
> > > book is about $25 used on Amazon if frugality is a must.
> > >
> > > I just realized my NC40A is 15 years old now...I built it in 1998...so
> > > I got it out and fired it up and just had a nice 15 minute CW QSO with
> > > it...pumping out all of 1 watt to the attic dipole. It's the rig I
> > > started my CW QRP journey with and the first radio I ever built.
> > > Works good, lasts long time.
> > >
> > > 72 de KB9BVN
> >
> > _____

> > QRP-L mailing list
> > Home: http://mailman.qth.net/mailman/listinfo/qrp-l
> > Help: http://mailman.qth.net/mmfaq.htm
> > Post: mailto:QRP-L@...
> >
> > This list hosted by: http://www.qsl.net
> > Please help support this email list: http://www.qsl.net/donate.html
>

10387. Re: [AT_Sprint] Re: [QRP-L] Recommendation wanted: Best simple 40M QRP kit/project with VFO

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-28 12:24:07 UTC
From: John Evans - N0HJ
Topic: 10385 Message: 10387

It's a 75m SSB rig from KD1JV, available at www.qrpkits.com.

72 - john - n0hj

On 2/27/2013 8:25 PM, k7tp wrote:
>
> What is the "survivor" radio?
>

10388. Re: [QRP-L] Recommendation wanted: Best simple 40M QRP kit/project with VFO

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-02-28 20:15:20 UTC
From: jgaffke
Topic: 10385 Message: 10388

I'm very interested in any numbers you come up with, please post them.
However, as you note, personal preference is a very big part of it.
If you want a compact SSB phone rig on a budget, the Survivor looks
very nice. But the MTR has an incredibly stable DDS VFO even in
severe conditions, and is optimized in many ways for the more
QRP friendly CW mode. If you're out backpacking for a couple months,
a miniscule receive current is more than just another number.
And for me at least, it mostly comes down to a personal preference
for the rig that is more fun to operate. Whatever that means.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
> ...I have measured a large number of QRPkits and KD1JV kits,
> and Elecraft kits. ...

10389. Re: [QRP-L] Recommendation wanted: Best simple 40M QRP kit/project w

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-01 17:16:41 UTC
From: JUAN A. VICTORIA
Topic: 10389 Message: 10389

Hello,
ILER 40 is a transceiver for 40 meter SSB very simple but it works great.
 http://www.qsl.net/ea3gcy/

72 Juan EA4DAT

10390. Re: [QRP-L] Recommendation wanted: Best simple 40M QRP kit/project w

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-01 20:38:01 UTC
From: Hinds, Don
Topic: 10389 Message: 10390

Juan,

Looks like a sweet little rig. I may have to get one just to say I did!

73,
Don
WD4ON

From: AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>
[mailto:AT_Sprint@yahoogroups.com] On Behalf Of JUAN A. VICTORIA
Sent: Friday, March 01, 2013 12:17 PM
To: AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] Re: [QRP-L] Recommendation wanted: Best simple 40M QRP kit/project w

Hello,
ILER 40 is a transceiver for 40 meter SSB very simple but it works great.
http://www.qsl.net/ea3gcy/

72 Juan EA4DAT

10391. ats3

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-04 19:45:48 UTC
From: rustytrap2003
Topic: 10391 Message: 10391

i have one of the early rigs ats3 this rig has give me more enjoyment than any rig i have ever had. did have to send it to steve i had broke a cap in asemly here is my problem when i cq the little critter takes off and id s on its own have any of you all had this happen? if so sure would like any help you could give me . steve if you see this post i will pay you what ever you want just name a price hi thats how much i want this little guy working again. getting to where i am afraid to try and fix things my self .gezzerville here thanks jim

10392. Re: [AT_Sprint] ats3

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-05 03:56:46 UTC
From: Steven Weber
Topic: 10391 Message: 10392

What do you mean by "takes off" ? Be more specific with the problem so you can get a specific answer!
KD1JV

>i have one of the early rigs ats3 this rig has give me more enjoyment than
>any rig i have ever had. did have to send it to steve i had broke a cap in
>asemly here is my problem when i cq the little critter takes off and id s
>on its own have any of you all had this happen? if so sure would like any
>help you could give me . steve if you see this post i will pay you what
>ever you want just name a price hi thats how much i want this little guy
>working again. getting to where i am afraid to try and fix things my self
>.gezzerville here thanks jim
>

10393. Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 20:01:07 UTC
From: Chris Maness
Topic: 10393 Message: 10393

I am going on a cruise in a couple of weeks, and I have narrowed down my antenna choices. The Buddy Stick, or the AlexLoop. Which one would be the most effective for a ship balcony on a tripod or rail?

Thanks,
Chris Maness

10394. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 20:11:09 UTC
From: TJ Campie
Topic: 10393 Message: 10394

Alex loop - a buddistick would be pretty unwieldy, especially in the wind off the side of the ship.

What line are you going on? Most do not allow ham radios anymore...

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Mar 6, 2013 at 2:01 PM, Chris Maness <chris@chrismaness.com> wrote:

> **
>
>
> I am going on a cruise in a couple of weeks, and I have narrowed down
> my antenna choices. The Buddy Stick, or the AlexLoop. Which one
> would be the most effective for a ship balcony on a tripod or rail?
>
> Thanks,
> Chris Maness
>
>

10395. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 20:15:20 UTC
From: Richard
Topic: 10393 Message: 10395

I don't know...but I would take the Alex Loop for ease of packing and set up. With a good rf ground, the BS would seem to be stronger, but its length might create problems. I have both.

Rich
NU6T

Chris Maness <chris@chrismaness.com> wrote:

>I am going on a cruise in a couple of weeks, and I have narrowed down
>my antenna choices. The Buddy Stick, or the AlexLoop. Which one
>would be the most effective for a ship balcony on a tripod or rail?
>
>Thanks,
>Chris Maness

10396. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 20:18:21 UTC
From: Chris Maness
Topic: 10393 Message: 10396

I am going on a Disney cruise. The Carnival captain allowed it on the last
cruise I was on a couple of years ago.

Thanks,
Chris Maness

On Wed, Mar 6, 2013 at 12:11 PM, TJ Campie <tom.campie@...> wrote:

>
>
> Alex loop - a buddistick would be pretty unwieldy, especially in the wind
> off the side of the ship.
>
> What line are you going on? Most do not allow ham radios anymore...
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Wed, Mar 6, 2013 at 2:01 PM, Chris Maness <chris@...>wrote:
>
>> **
>>
>>
>> I am going on a cruise in a couple of weeks, and I have narrowed down
>> my antenna choices. The Buddy Stick, or the AlexLoop. Which one
>> would be the most effective for a ship balcony on a tripod or rail?
>>
>> Thanks,
>> Chris Maness
>>
>
>
>
>

10397. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 20:17:56 UTC
From: Gil G.
Topic: 10393 Message: 10397

On Wed, 2013-03-06 at 12:01 -0800, Chris Maness wrote:
>
> I am going on a cruise in a couple of weeks, and I have narrowed down
> my antenna choices. The Buddy Stick, or the AlexLoop. Which one
> would be the most effective for a ship balcony on a tripod or rail?
>
> Thanks,
> Chris Maness

I agree on the loop. The Buddistick is great, but on a ship... You have to think about the counterpoise, which works best perpendicular to the antenna, and is quite long on 20+m. And there is the wind problem of course.

Gil.
--
http://radiopreppers.com

10398. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 20:27:28 UTC
From: TJ Campie
Topic: 10393 Message: 10398

how have you gone about getting approval from the captain?

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Mar 6, 2013 at 2:18 PM, Chris Maness <chris@...> wrote:

> **
>
>
> I am going on a Disney cruise. The Carnival captain allowed it on the
> last cruise I was on a couple of years ago.
>
> Thanks,
> Chris Maness
>
>
> On Wed, Mar 6, 2013 at 12:11 PM, TJ Campie <tom.campie@...> wrote:
>
>>
>>
>> Alex loop - a buddistick would be pretty unwieldy, especially in the wind
>> off the side of the ship.
>>
>> What line are you going on? Most do not allow ham radios anymore...
>>
>> 73, W0EA
>> TJ
>> ----
>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>> NAQCC #3768 | Flying Pigs QRP #2254
>> Elecraft KX3 SN 288
>> *Because QRO is too easy*
>>
>>
>> On Wed, Mar 6, 2013 at 2:01 PM, Chris Maness <chris@...>wrote:
>>
>>> **
>>>
>>>
>>> I am going on a cruise in a couple of weeks, and I have narrowed down

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>>> my antenna choices. The Buddy Stick, or the AlexLoop. Which one
>>> would be the most effective for a ship balcony on a tripod or rail?
>>>
>>> Thanks,
>>> Chris Maness
>>>
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10399. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 20:32:30 UTC
From: Timothy Gordish
Topic: 10393 Message: 10399

I would go with Buddy Stick because it does have a counter poise. The metal hull and salt water below will make for great performance. I used a short whip with counter poise in the pacific and was amazed by how well it did work.

Sent from my iPod

On Mar 6, 2013, at 13:17, "Gil G." <gil@keskydee.com> wrote:

> On Wed, 2013-03-06 at 12:01 -0800, Chris Maness wrote:
> >
> > I am going on a cruise in a couple of weeks, and I have narrowed down
> > my antenna choices. The Buddy Stick, or the AlexLoop. Which one
> > would be the most effective for a ship balcony on a tripod or rail?
> >
> > Thanks,
> > Chris Maness
>
> I agree on the loop. The Buddistick is great, but on a ship... You have
> to think about the counterpoise, which works best perpendicular to the
> antenna, and is quite long on 20+m. And there is the wind problem of
> course.
>
> Gil.
> --
> http://radiopreppers.com
>
>

10400. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 20:59:53 UTC
From: Chris Maness
Topic: 10393 Message: 10400

I received permission while aboard on the Carnival ship. I will be emailing Disney, what I have read is that they are ham friendly.

I am only running five whats, so QRM with the ship's radio room should not be an issue.

Thanks,
Chris Maness

On Wed, Mar 6, 2013 at 12:27 PM, TJ Campie <tom.campie@...> wrote:

>
>
> how have you gone about getting approval from the captain?
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
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> On Wed, Mar 6, 2013 at 2:18 PM, Chris Maness <chris@...>wrote:
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>> **
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>> I am going on a Disney cruise. The Carnival captain allowed it on the
>> last cruise I was on a couple of years ago.
>>
>> Thanks,
>> Chris Maness
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>>
>> On Wed, Mar 6, 2013 at 12:11 PM, TJ Campie <tom.campie@...> wrote:
>>
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>>>
>>> Alex loop - a buddistick would be pretty unwieldy, especially in the
>>> wind off the side of the ship.
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>>> What line are you going on? Most do not allow ham radios anymore...
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>>> 73, W0EA

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>>> On Wed, Mar 6, 2013 at 2:01 PM, Chris Maness <chris@...>wrote:
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>>>> I am going on a cruise in a couple of weeks, and I have narrowed down
>>>> my antenna choices. The Buddy Stick, or the AlexLoop. Which one
>>>> would be the most effective for a ship balcony on a tripod or rail?
>>>>
>>>> Thanks,
>>>> Chris Maness
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10401. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 21:03:06 UTC
From: Chris Maness
Topic: 10393 Message: 10401

Yes, I thought about grounding out to the ship.

Chris

On Wed, Mar 6, 2013 at 12:59 PM, Chris Maness <chris@...> wrote:

> I received permission while aboard on the Carnival ship. I will be
> emailing Disney, what I have read is that they are ham friendly.
>
> I am only running five whats, so QRM with the ship's radio room should not
> be an issue.
>
> Thanks,
> Chris Maness
>
>
> On Wed, Mar 6, 2013 at 12:27 PM, TJ Campie <tom.campie@...> wrote:
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>>
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>> how have you gone about getting approval from the captain?
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>> 73, W0EA
>> TJ
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>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
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>> On Wed, Mar 6, 2013 at 2:18 PM, Chris Maness <chris@...>wrote:
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>>> **
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>>> I am going on a Disney cruise. The Carnival captain allowed it on the
>>> last cruise I was on a couple of years ago.
>>>
>>> Thanks,
>>> Chris Maness
>>>
>>>
>>> On Wed, Mar 6, 2013 at 12:11 PM, TJ Campie <tom.campie@...> wrote:
>>>
>>>>

>>>>
>>>> Alex loop - a buddistick would be pretty unwieldy, especially in the
>>>> wind off the side of the ship.
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>>>> What line are you going on? Most do not allow ham radios anymore...
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>>>> 73, W0EA
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>>>> On Wed, Mar 6, 2013 at 2:01 PM, Chris Maness <chris@...>wrote:
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>>>>> my antenna choices. The Buddy Stick, or the AlexLoop. Which one
>>>>> would be the most effective for a ship balcony on a tripod or rail?
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>>>>> Thanks,
>>>>> Chris Maness
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10402. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 21:13:04 UTC
From: mstangelo@...
Topic: 10393 Message: 10402

Chris,

Disney Cruise Line ships are registered in the Bahamas. Did you get a Bahamian Reciprocal Operating License?

Mike N2MS

----- Original Message -----
From: Chris Maness <chris@...>
To: AT Sprint <AT_Sprint@yahoogroups.com>
Sent: Wed, 06 Mar 2013 20:59:53 -0000 (UTC)
Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

I received permission while aboard on the Carnival ship. I will be emailing Disney, what I have read is that they are ham friendly.

I am only running five whats, so QRM with the ship's radio room should not be an issue.

Thanks,
Chris Maness

On Wed, Mar 6, 2013 at 12:27 PM, TJ Campie <tom.campie@...> wrote:

>
>
> how have you gone about getting approval from the captain?
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Wed, Mar 6, 2013 at 2:18 PM, Chris Maness <chris@...>wrote:
>
>> **
>>
>>
>> I am going on a Disney cruise. The Carnival captain allowed it on the
>> last cruise I was on a couple of years ago.
>>
>> Thanks,
>> Chris Maness

>>
>>
>> On Wed, Mar 6, 2013 at 12:11 PM, TJ Campie <tom.campie@...> wrote:
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>>>
>>>
>>> Alex loop - a buddistick would be pretty unwieldy, especially in the
>>> wind off the side of the ship.
>>>
>>> What line are you going on? Most do not allow ham radios anymore...
>>>
>>> 73, W0EA
>>> TJ
>>> ----
>>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>>> NAQCC #3768 | Flying Pigs QRP #2254
>>> Elecraft KX3 SN 288
>>> *Because QRO is too easy*
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>>> On Wed, Mar 6, 2013 at 2:01 PM, Chris Maness <chris@...>wrote:
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>>>> **
>>>>
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>>>> I am going on a cruise in a couple of weeks, and I have narrowed down
>>>> my antenna choices. The Buddy Stick, or the AlexLoop. Which one
>>>> would be the most effective for a ship balcony on a tripod or rail?
>>>>
>>>> Thanks,
>>>> Chris Maness
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10403. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 21:30:45 UTC
From: Milton Riutort
Topic: 10393 Message: 10403

Wow, if you have the permission the Budstick may be a good performer even having to manage the counter plain cable space. My mobile antenna is an MP1 Superantenna that works quite well in front of the sea. In theory the vertical antennas are very good at sea level. But your are not exactly at sea level, so everything is possible.

Let me suggest this:

Evaluate which one is the easy to carry and setup and make your decision not only on the performance of the antenna.

Remember also how the loop is affected with the surrounding possible metals and if this affect the complete antenna performance and setup. I have no idea of this, but you may be in serious problem if that happen. Vertical get a damage distribution pattern, but keep working after finding the correct match point.

Ja ja, still thinking on performance more than commodity.

Also, test them first on similar possible operating condition. Installing and testing your setup at home let you have all the needed parts on hand before the real setup. Nothing missing.

Make some contacts, just for fun, but operate it as normal as ever, to see how them works and to compare them after returning from the trip.

Good luck,
Milton NP4KT

Sent from my iPhone

On Mar 6, 2013, at 4:32 PM, Timothy Gordish <gordisht@...> wrote:

> I would go with Buddy Stick because it does have a counter poise. The metal hull and salt water below will make for great performance. I used a short whip with counter poise in the pacific and was amazed by how well it did work.
>
> Sent from my iPod
>
> On Mar 6, 2013, at 13:17, "Gil G." <gil@...> wrote:
>
>>
>> On Wed, 2013-03-06 at 12:01 -0800, Chris Maness wrote:
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>> > I am going on a cruise in a couple of weeks, and I have narrowed down
>> > my antenna choices. The Buddy Stick, or the AlexLoop. Which one
>> > would be the most effective for a ship balcony on a tripod or rail?
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>> > Thanks,

>> > Chris Maness
>>
>> I agree on the loop. The Buddistick is great, but on a ship... You have
>> to think about the counterpoise, which works best perpendicular to the
>> antenna, and is quite long on 20+m. And there is the wind problem of
>> course.
>>
>> Gil.
>> --
>> http://radiopreppers.com
>
>

10404. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 22:42:36 UTC
From: Chris Maness
Topic: 10393 Message: 10404

I don't think I would need that in international waters. Would I? I would imagine I would need one if I was transmitting in the Bahama port.

Chris

On Wed, Mar 6, 2013 at 1:13 PM, <mstangelo@...> wrote:
> Chris,
>
> Disney Cruise Line ships are registered in the Bahamas. Did you get a Bahamian Reciprocal Operating License?
>
> Mike N2MS
>
> ----- Original Message -----
> From: Chris Maness <chris@...>
> To: AT Sprint <AT_Sprint@yahoogroups.com>
> Sent: Wed, 06 Mar 2013 20:59:53 -0000 (UTC)
> Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
>
> I received permission while aboard on the Carnival ship. I will be
> emailing Disney, what I have read is that they are ham friendly.
>
> I am only running five whats, so QRM with the ship's radio room should not
> be an issue.
>
> Thanks,
> Chris Maness
>
> On Wed, Mar 6, 2013 at 12:27 PM, TJ Campie <tom.campie@...> wrote:
>
>>
>>
>> how have you gone about getting approval from the captain?
>>
>> 73, W0EA
>> TJ
>> ----
>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>> NAQCC #3768 | Flying Pigs QRP #2254
>> Elecraft KX3 SN 288
>> *Because QRO is too easy*
>>
>>
>> On Wed, Mar 6, 2013 at 2:18 PM, Chris Maness <chris@...>wrote:

>>
>>> **
>>>
>>>
>>> I am going on a Disney cruise. The Carnival captain allowed it on the
>>> last cruise I was on a couple of years ago.
>>>
>>> Thanks,
>>> Chris Maness
>>>
>>>
>>> On Wed, Mar 6, 2013 at 12:11 PM, TJ Campie <tom.campie@...> wrote:
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>>>>
>>>>
>>>> Alex loop - a buddistick would be pretty unwieldy, especially in the
>>>> wind off the side of the ship.
>>>>
>>>> What line are you going on? Most do not allow ham radios anymore...
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>>>> 73, W0EA
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>>>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
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>>>> On Wed, Mar 6, 2013 at 2:01 PM, Chris Maness <chris@...>wrote:
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>>>>> I am going on a cruise in a couple of weeks, and I have narrowed down
>>>>> my antenna choices. The Buddy Stick, or the AlexLoop. Which one
>>>>> would be the most effective for a ship balcony on a tripod or rail?
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>>>>> Thanks,
>>>>> Chris Maness
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> Yahoo! Groups Links
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10405. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-06 22:49:41 UTC
From: TJ Campie
Topic: 10393 Message: 10405

You need to have reciprocal license for the registry of the ship.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Mar 6, 2013 at 4:42 PM, Chris Maness <chris@...> wrote:

> **
>
>
> I don't think I would need that in international waters. Would I? I
> would imagine I would need one if I was transmitting in the Bahama
> port.
>
> Chris
>
>
> On Wed, Mar 6, 2013 at 1:13 PM, mstangelo@...> wrote:
> > Chris,
> >
> > Disney Cruise Line ships are registered in the Bahamas. Did you get a
> Bahamian Reciprocal Operating License?
> >
> > Mike N2MS
> >
> > ----- Original Message -----
> > From: Chris Maness chris@chrismaness.com>
> > To: AT Sprint AT_Sprint@yahoogroups.com>
> > Sent: Wed, 06 Mar 2013 20:59:53 -0000 (UTC)
> > Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
> >
> > I received permission while aboard on the Carnival ship. I will be
> > emailing Disney, what I have read is that they are ham friendly.
> >
> > I am only running five whats, so QRM with the ship's radio room should
> not
> > be an issue.
> >
> > Thanks,
> > Chris Maness
> >

> > On Wed, Mar 6, 2013 at 12:27 PM, TJ Campie tom.campie@...> wrote:
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> >>
> >>
> >> how have you gone about getting approval from the captain?
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> >> 73, W0EA
> >> TJ
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> >> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> >> NAQCC #3768 | Flying Pigs QRP #2254
> >> Elecraft KX3 SN 288
> >> *Because QRO is too easy*
> >>
> >>
> >> On Wed, Mar 6, 2013 at 2:18 PM, Chris Maness chris@...
> >wrote:
> >>
> >>> **
> >>>
> >>>
> >>> I am going on a Disney cruise. The Carnival captain allowed it on the
> >>> last cruise I was on a couple of years ago.
> >>>
> >>> Thanks,
> >>> Chris Maness
> >>>
> >>>
> >>> On Wed, Mar 6, 2013 at 12:11 PM, TJ Campie tom.campie@...>
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> >>>
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> >>>>
> >>>> Alex loop - a buddistick would be pretty unwieldy, especially in the
> >>>> wind off the side of the ship.
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> >>>> What line are you going on? Most do not allow ham radios anymore...
> >>>>
> >>>> 73, W0EA
> >>>> TJ
> >>>> ----
> >>>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> >>>> NAQCC #3768 | Flying Pigs QRP #2254
> >>>> Elecraft KX3 SN 288
> >>>> *Because QRO is too easy*
> >>>>
> >>>>
> >>>> On Wed, Mar 6, 2013 at 2:01 PM, Chris Maness chris@chrismaness.com
> >wrote:
> >>>>

```
> >>>>> **
> >>>>>
> >>>>>
> >>>>> I am going on a cruise in a couple of weeks, and I have narrowed down
> >>>>> my antenna choices. The Buddy Stick, or the AlexLoop. Which one
> >>>>> would be the most effective for a ship balcony on a tripod or rail?
> >>>>>
> >>>>> Thanks,
> >>>>> Chris Maness
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> > Yahoo! Groups Links
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10406. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 01:00:13 UTC
From: mstangelo@...
Topic: 10393 Message: 10406

Chris,

If you're in international waters or in the Bahamas you wold need a Bahamian reciprocal license. If the ship stopped an a third country such as Cancun Mexico you would need a Mexican reciprocal license to operate there.

Mike N2MS

----- Original Message -----
From: Chris Maness <chris@...>
To: AT Sprint <AT_Sprint@yahoogroups.com>
Sent: Wed, 06 Mar 2013 22:42:36 -0000 (UTC)
Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

I don't think I would need that in international waters. Would I? I
would imagine I would need one if I was transmitting in the Bahama
port.

Chris

On Wed, Mar 6, 2013 at 1:13 PM, <mstangelo@...> wrote:
> Chris,
>
> Disney Cruise Line ships are registered in the Bahamas. Did you get a Bahamian Reciprocal Operating License?
>
> Mike N2MS
>
> ----- Original Message -----
> From: Chris Maness <chris@...>
> To: AT Sprint <AT_Sprint@yahoogroups.com>
> Sent: Wed, 06 Mar 2013 20:59:53 -0000 (UTC)
> Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
>
> I received permission while aboard on the Carnival ship. I will be
> emailing Disney, what I have read is that they are ham friendly.
>
> I am only running five whats, so QRM with the ship's radio room should not
> be an issue.
>
> Thanks,
> Chris Maness
>
> On Wed, Mar 6, 2013 at 12:27 PM, TJ Campie <tom.campie@...> wrote:
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>>

>>
>> how have you gone about getting approval from the captain?
>>
>> 73, W0EA
>> TJ
>> ----
>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>> NAQCC #3768 | Flying Pigs QRP #2254
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>> On Wed, Mar 6, 2013 at 2:18 PM, Chris Maness <chris@...>wrote:
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>>>> Alex loop - a buddistick would be pretty unwieldy, especially in the
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>>>> What line are you going on? Most do not allow ham radios anymore...
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>>>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
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>>>> On Wed, Mar 6, 2013 at 2:01 PM, Chris Maness <chris@...>wrote:
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>>>>> my antenna choices. The Buddy Stick, or the AlexLoop. Which one
>>>>> would be the most effective for a ship balcony on a tripod or rail?

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>>>>> Thanks,
>>>>> Chris Maness
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> Yahoo! Groups Links
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Yahoo! Groups Links

10407. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 01:08:29 UTC
From: Chris Maness
Topic: 10393 Message: 10407

Do we have a reciprocal agreement with Mexico?

Chris
On Mar 6, 2013 5:00 PM, <mstangelo@...> wrote:

> Chris,
>
> If you're in international waters or in the Bahamas you wold need a
> Bahamian reciprocal license. If the ship stopped an a third country such as
> Cancun Mexico you would need a Mexican reciprocal license to operate there.
>
> Mike N2MS
>
>
> ----- Original Message -----
> From: Chris Maness <chris@...>
> To: AT Sprint <AT_Sprint@yahoogroups.com>
> Sent: Wed, 06 Mar 2013 22:42:36 -0000 (UTC)
> Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
>
> I don't think I would need that in international waters. Would I? I
> would imagine I would need one if I was transmitting in the Bahama
> port.
>
> Chris
>
> On Wed, Mar 6, 2013 at 1:13 PM, <mstangelo@...> wrote:
> > Chris,
> >
> > Disney Cruise Line ships are registered in the Bahamas. Did you get a
> Bahamian Reciprocal Operating License?
> >
> > Mike N2MS
> >
> > ----- Original Message -----
> > From: Chris Maness <chris@...>
> > To: AT Sprint <AT_Sprint@yahoogroups.com>
> > Sent: Wed, 06 Mar 2013 20:59:53 -0000 (UTC)
> > Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
> >
> > I received permission while aboard on the Carnival ship. I will be
> > emailing Disney, what I have read is that they are ham friendly.
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> >
> > Thanks,
> > Chris Maness
> >
> > On Wed, Mar 6, 2013 at 12:27 PM, TJ Campie <tom.campie@...> wrote:
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> >>
> >> how have you gone about getting approval from the captain?
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> >> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
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> >> On Wed, Mar 6, 2013 at 2:18 PM, Chris Maness <chris@...
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> >>
> >>> **
> >>>
> >>>
> >>> I am going on a Disney cruise. The Carnival captain allowed it on the
> >>> last cruise I was on a couple of years ago.
> >>>
> >>> Thanks,
> >>> Chris Maness
> >>>
> >>>
> >>> On Wed, Mar 6, 2013 at 12:11 PM, TJ Campie <tom.campie@...>
> wrote:
> >>>
> >>>>
> >>>>
> >>>> Alex loop - a buddistick would be pretty unwieldy, especially in the
> >>>> wind off the side of the ship.
> >>>>
> >>>> What line are you going on? Most do not allow ham radios anymore...
> >>>>
> >>>> 73, W0EA
> >>>> TJ
> >>>> ----
> >>>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> >>>> NAQCC #3768 | Flying Pigs QRP #2254
> >>>> Elecraft KX3 SN 288
> >>>> *Because QRO is too easy*

> >>>>
> >>>>
> >>>> On Wed, Mar 6, 2013 at 2:01 PM, Chris Maness <chris@...
> >wrote:
> >>>>
> >>>>> **
> >>>>>
> >>>>>
> >>>>> I am going on a cruise in a couple of weeks, and I have narrowed down
> >>>>> my antenna choices. The Buddy Stick, or the AlexLoop. Which one
> >>>>> would be the most effective for a ship balcony on a tripod or rail?
> >>>>>
> >>>>> Thanks,
> >>>>> Chris Maness
> >>>>>
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10408. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 01:25:30 UTC
From: mstangelo@...
Topic: 10393 Message: 10408

No, you have to apply in advance and pay a fee to get a Mexican license.

I'd check the rules on the ARRL website befor operating on board a ship or in a foreign country:

<http://www.arrl.org/maritime-mobile-operation-in-international-waters>

It also takes time to get licenses so don't forget to apply early.

Mike N2MS
----- Original Message -----
From: Chris Maness <chris@...>
To: AT Sprint <AT_Sprint@yahoogroups.com>
Sent: Thu, 07 Mar 2013 01:08:29 -0000 (UTC)
Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Do we have a reciprocal agreement with Mexico?

Chris
On Mar 6, 2013 5:00 PM, <mstangelo@...> wrote:

> Chris,
>
> If you're in international waters or in the Bahamas you wold need a
> Bahamian reciprocal license. If the ship stopped an a third country such as
> Cancun Mexico you would need a Mexican reciprocal license to operate there.
>
> Mike N2MS
>
>
> ----- Original Message -----
> From: Chris Maness <chris@...>
> To: AT Sprint <AT_Sprint@yahoogroups.com>
> Sent: Wed, 06 Mar 2013 22:42:36 -0000 (UTC)
> Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
>
> I don't think I would need that in international waters. Would I? I
> would imagine I would need one if I was transmitting in the Bahama
> port.
>
> Chris
>
> On Wed, Mar 6, 2013 at 1:13 PM, <mstangelo@...> wrote:
> > Chris,
> >
> > Disney Cruise Line ships are registered in the Bahamas. Did you get a
> Bahamian Reciprocal Operating License?

> >
> > Mike N2MS
> >
> > ----- Original Message -----
> > From: Chris Maness <chris@...>
> > To: AT Sprint <AT_Sprint@yahoogroups.com>
> > Sent: Wed, 06 Mar 2013 20:59:53 -0000 (UTC)
> > Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
> >
> > I received permission while aboard on the Carnival ship. I will be
> > emailing Disney, what I have read is that they are ham friendly.
> >

10409. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 02:01:16 UTC
From: Chris Maness
Topic: 10393 Message: 10409

Thanks for the info. Do all Disney ships hail from the Bahamas? If
so, I better hurry to get my permit.

Chris

On Wed, Mar 6, 2013 at 5:25 PM, <mstangelo@...> wrote:
> No, you have to apply in advance and pay a fee to get a Mexican license.
>
> I'd check the rules on the ARRL website befor operating on board a ship or in a foreign
country:
>
> <http://www.arrl.org/maritime-mobile-operation-in-international-waters>
>
> It also takes time to get licenses so don't forget to apply early.
>
> Mike N2MS
> ----- Original Message -----
> From: Chris Maness <chris@...>
> To: AT Sprint <AT_Sprint@yahoogroups.com>
> Sent: Thu, 07 Mar 2013 01:08:29 -0000 (UTC)
> Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
>
> Do we have a reciprocal agreement with Mexico?
>
> Chris
> On Mar 6, 2013 5:00 PM, <mstangelo@...> wrote:
>
>> Chris,
>>
>> If you're in international waters or in the Bahamas you wold need a
>> Bahamian reciprocal license. If the ship stopped an a third country such as
>> Cancun Mexico you would need a Mexican reciprocal license to operate there.
>>
>> Mike N2MS
>>
>>
>> ----- Original Message -----
>> From: Chris Maness <chris@...>
>> To: AT Sprint <AT_Sprint@yahoogroups.com>
>> Sent: Wed, 06 Mar 2013 22:42:36 -0000 (UTC)
>> Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
>>
>> I don't think I would need that in international waters. Would I? I
>> would imagine I would need one if I was transmitting in the Bahama
>> port.

>>
>> Chris
>>
>> On Wed, Mar 6, 2013 at 1:13 PM, <mstangelo@...> wrote:
>> > Chris,
>> >
>> > Disney Cruise Line ships are registered in the Bahamas. Did you get a
>> Bahamian Reciprocal Operating License?
>> >
>> > Mike N2MS
>> >
>> > ----- Original Message -----
>> > From: Chris Maness <chris@...>
>> > To: AT Sprint <AT_Sprint@yahoogroups.com>
>> > Sent: Wed, 06 Mar 2013 20:59:53 -0000 (UTC)
>> > Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
>> >
>> > I received permission while aboard on the Carnival ship. I will be
>> > emailing Disney, what I have read is that they are ham friendly.
>> >
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> Yahoo! Groups Links
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10410. Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 02:10:03 UTC
From: mstangelo@...
Topic: 10393 Message: 10410

Chris,

I think they're all registered in the Bahamas.

Have fun on your cruise.

Mike N2MS
----- Original Message -----
From: Chris Maness <chris@...>
To: AT Sprint <AT_Sprint@yahoogroups.com>
Sent: Thu, 07 Mar 2013 02:01:16 -0000 (UTC)
Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham

Thanks for the info. Do all Disney ships hail from the Bahamas? If
so, I better hurry to get my permit.

Chris

On Wed, Mar 6, 2013 at 5:25 PM, <mstangelo@...> wrote:
> No, you have to apply in advance and pay a fee to get a Mexican license.
>
> I'd check the rules on the ARRL website befor operating on board a ship or in a foreign
country:
>
> <http://www.arrl.org/maritime-mobile-operation-in-international-waters>
>
> It also takes time to get licenses so don't forget to apply early.
>
> Mike N2MS
> ----- Original Message -----
> From: Chris Maness <chris@...>
> To: AT Sprint <AT_Sprint@yahoogroups.com>
> Sent: Thu, 07 Mar 2013 01:08:29 -0000 (UTC)
> Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
>
> Do we have a reciprocal agreement with Mexico?
>
> Chris
> On Mar 6, 2013 5:00 PM, <mstangelo@...> wrote:
>
>> Chris,
>>
>> If you're in international waters or in the Bahamas you wold need a
>> Bahamian reciprocal license. If the ship stopped an a third country such as
>> Cancun Mexico you would need a Mexican reciprocal license to operate there.
>>

>> Mike N2MS
>>
>>
>> ----- Original Message -----
>> From: Chris Maness <chris@...>
>> To: AT Sprint <AT_Sprint@yahoogroups.com>
>> Sent: Wed, 06 Mar 2013 22:42:36 -0000 (UTC)
>> Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
>>
>> I don't think I would need that in international waters. Would I? I
>> would imagine I would need one if I was transmitting in the Bahama
>> port.
>>
>> Chris
>>
>> On Wed, Mar 6, 2013 at 1:13 PM, <mstangelo@...> wrote:
>> > Chris,
>> >
>> > Disney Cruise Line ships are registered in the Bahamas. Did you get a
>> Bahamian Reciprocal Operating License?
>> >
>> > Mike N2MS
>> >
>> > ----- Original Message -----
>> > From: Chris Maness <chris@...>
>> > To: AT Sprint <AT_Sprint@yahoogroups.com>
>> > Sent: Wed, 06 Mar 2013 20:59:53 -0000 (UTC)
>> > Subject: Re: [AT_Sprint] Buddy Stick vs. AlexLoop Walkham
>> >
>> > I received permission while aboard on the Carnival ship. I will be
>> > emailing Disney, what I have read is that they are ham friendly.
>> >
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> Yahoo! Groups Links
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Yahoo! Groups Links

10411. New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 13:10:43 UTC
From: kc2nyu
Topic: 10411 Message: 10411

A while back I saw a posting to expect an announcement the end of Feb on a new Mountain Top Radio Kit. Did I miss the posting or are we still waiting?

73 Paul

10412. RE: [AT_Sprint] New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 15:18:42 UTC
From: Hinds, Don
Topic: 10411 Message: 10412
Attachments: 2 described; binary payloads are missing from this source WARC

No word yet. There was also discussion of a case for the MTR. Which is why I'm setting at the computer with my wallet in my hand...

73,
Don
WD4ON

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of kc2nyu
Sent: Thursday, March 07, 2013 8:11 AM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] New MTR ?

A while back I saw a posting to expect an announcement the end of Feb on a new Mountain Top Radio Kit. Did I miss the posting or are we still waiting?

73 Paul

10413. Re: [AT_Sprint] New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 16:44:38 UTC
From: Håkan Olsson
Topic: 10411 Message: 10413

I expect a new MTR is coming out very soon sometime during this month.
But I still think that his ATS-4b was/is the best version of his tiny
portable rigs he has ever made!

H?kan / SM6EQO

Hinds, Don skrev 2013-03-07 16:18:
>
> No word yet. There was also discussion of a case for the MTR. Which is
> why I'm setting at the computer with my wallet in my hand...
>
> 73,
>
> Don
>
> WD4ON
>
>

10414. Re: [AT_Sprint] New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 18:03:08 UTC
From: John DeJournett
Topic: 10411 Message: 10414

I had an e-mail earlier this week from Steve where he sais the next MTR offering will be in "a couple weeks." Don't worry, it is still comming. I'm sure he just wants to make sure he has everything worked out for the offering.

John
KD0JXN

On Thu, Mar 7, 2013 at 10:44 AM, Håkan Olsson <sm6eqo@bredband.net> wrote:

> **
>
>
> I expect a new MTR is coming out very soon sometime during this month.
> But I still think that his ATS-4b was/is the best version of his tiny
> portable rigs he has ever made!
>
> Håkan / SM6EQO
>
>
> Hinds, Don skrev 2013-03-07 16:18:
>
>
>
> No word yet. There was also discussion of a case for the MTR. Which is
> why I’m setting at the computer with my wallet in my hand…****
>
> ** **
>
> 73,****
>
> Don****
>
> WD4ON****
>
> ** **
>
>
>
>

10415. Re: [AT_Sprint] New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 20:26:47 UTC
From: Hank Greeb
Topic: 10411 Message: 10415

The MTR rig is "primarily" for folks who climb mountains, sometimes higher than 14,000 feet AMSL, or go on long backpacking trips, and to whom simplicity and weight is of utmost importance. I agree that the ATS-4 or ATS-3b are the greatest for most uses.

I'm waiting for the 160/80 rig which was mentioned a while back, but Steve said was having complications. I'd love to have a small rig which covers the lower part of the 160 meter band.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/7/2013 11:44 AM, H?kan Olsson wrote:
>
>
> I expect a new MTR is coming out very soon sometime during this month.
> But I still think that his ATS-4b was/is the best version of his tiny
> portable rigs he has ever made!
>
> H?kan / SM6EQO

10416. Re: [AT_Sprint] New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 21:02:17 UTC
From: Håkan Olsson
Topic: 10411 Message: 10416

I have activated more than 200 individual SMFF:s by foot and by bike and quite a number of SOTA:s in the Swedish high mountains far away from any kind of civilization carrying my ATS-4 in my backpack. The rig has worked flawlessly all the time. I can not see any need for anything more simple or lighter than the ATS-4. So - probably to the joy of some people - I think I will pass on the MTR... :-)

H?kan / SM6EQO

Hank Greeb skrev 2013-03-07 21:26:
> The MTR rig is "primarily" for folks who climb mountains, sometimes
> higher than 14,000 feet AMSL, or go on long backpacking trips, and to
> whom simplicity and weight is of utmost importance. I agree that the
> ATS-4 or ATS-3b are the greatest for most uses.
>
> I'm waiting for the 160/80 rig which was mentioned a while back, but
> Steve said was having complications. I'd love to have a small rig
> which covers the lower part of the 160 meter band.
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time

10417. Re: [AT_Sprint] New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 22:10:01 UTC
From: Steven Weber
Topic: 10411 Message: 10417

The circuit boards will be here in an hour or so. I don't have a current ETA for the cases yet, but those should be shipping in a week or two. I maybe ready by the time the cases get here, maybe not. It's almost time to help make Maple Syrup, so that could slow me down some.

I made some minor changes to the board by converting to chip caps in the transmitter filter, so of course the manual needs to be updated and still working on that. I'm also changing the way the caps are color coded as I'm running out of colors to use. I'm now going to mark the carriers with their value using the resistor color code.

I've also decided to eliminate the pocketdigi mode since I belive that feature has pretty much run it's course. The calibration mode has bee simplified as I'm using clocks with 20 ppm accuracy which should be pleanty close "as is". The 100 ppm clocks were typically really close and these new ones are 5 times better.

So, keep tuned, it won't be too much longer...

KD1JV
I had an e-mail earlier this week from Steve where he sais the next MTR offering will be in "a couple weeks." Don't worry, it is still comming.

10418. Re: New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 22:40:59 UTC
From: Colin
Topic: 10411 Message: 10418

Thanks for the update Steven, it's good to hear that the new batch of MTRs is progressing well.

Sounds like the rig will be even better than before :-)

I think I have decided that I would like to get a case for MTR #131. The Altoids tin is serving me well but the new case sounds very smart.

I know that there is a sizeable group of interested hams in the UK all wanting to get their hands on an MTR this time around, so I do hope that you make a suitable payment option available to us.

Thanks Steven, great job, 73

Colin, M0CGH
MTR #131

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> The circuit boards will be here in an hour or so. I don't have a current ETA for the cases yet, but those should be shipping in a week or two. I maybe ready by the time the cases get here, maybe not. It's almost time to help make Maple Syrup, so that could slow me down some.
>
> I made some minor changes to the board by converting to chip caps in the transmitter filter, so of course the manual needs to be updated and still working on that. I'm also changing the way the caps are color coded as I'm running out of colors to use. I'm now going to mark the carriers with their value using the resistor color code.
>
> I've also decided to eliminate the pocketdigi mode since I belive that feature has pretty much run it's course. The calibration mode has bee simplified as I'm using clocks with 20 ppm accuracy which should be pleanty close "as is". The 100 ppm clocks were typically really close and these new ones are 5 times better.
>
> So, keep tuned, it won't be too much longer...
>
> KD1JV
> I had an e-mail earlier this week from Steve where he sais the next MTR offering will be in "a couple weeks." Don't worry, it is still comming.
>

10419. Re: New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 22:42:06 UTC
From: wheeler2roh
Topic: 10411 Message: 10419

Steve-

Excited to hear of your progress! I've been waiting for my shot at an MTR since last Spring.

There must be some connection between QRP and maple syrup, but I've haven't figured it out yet. :)

Regarding PocketDIgi, I was actually looking forward to playing with the MTR in digital mode (I have an old Jornada PocketPC), and maybe there are others who'd like to try this as well. It's a feature not found in most small transceivers. Are you needing to clear up program space on the processor? Would I be able to flash an old version of the code if you make the change, and still use the MTR with digital?

Thanks,
Wayne
W6AHH

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> The circuit boards will be here in an hour or so. I don't have a current ETA for the cases yet, but those should be shipping in a week or two. I maybe ready by the time the cases get here, maybe not. It's almost time to help make Maple Syrup, so that could slow me down some.
>
> I made some minor changes to the board by converting to chip caps in the transmitter filter, so of course the manual needs to be updated and still working on that. I'm also changing the way the caps are color coded as I'm running out of colors to use. I'm now going to mark the carriers with their value using the resistor color code.
>
> I've also decided to eliminate the pocketdigi mode since I belive that feature has pretty much run it's course. The calibration mode has bee simplified as I'm using clocks with 20 ppm accuracy which should be pleanty close "as is". The 100 ppm clocks were typically really close and these new ones are 5 times better.
>
> So, keep tuned, it won't be too much longer...
>
> KD1JV
> I had an e-mail earlier this week from Steve where he sais the next MTR offering will be in "a couple weeks." Don't worry, it is still comming.
>

10420. Re: New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 22:23:40 UTC
From: ian.kirkpatrick1@btinternet.com
Topic: 10411 Message: 10420

Thanks for the heads up Steve, much appreciated.
Ian
G4WTF

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> The circuit boards will be here in an hour or so. I don't have a current ETA for the cases yet, but those should be shipping in a week or two. I maybe ready by the time the cases get here, maybe not. It's almost time to help make Maple Syrup, so that could slow me down some.
>
> I made some minor changes to the board by converting to chip caps in the transmitter filter, so of course the manual needs to be updated and still working on that. I'm also changing the way the caps are color coded as I'm running out of colors to use. I'm now going to mark the carriers with their value using the resistor color code.
>
> I've also decided to eliminate the pocketdigi mode since I belive that feature has pretty much run it's course. The calibration mode has bee simplified as I'm using clocks with 20 ppm accuracy which should be pleanty close "as is". The 100 ppm clocks were typically really close and these new ones are 5 times better.
>
> So, keep tuned, it won't be too much longer...
>
> KD1JV
> I had an e-mail earlier this week from Steve where he sais the next MTR offering will be in "a couple weeks." Don't worry, it is still comming.
>

10421. Re: [AT_Sprint] New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-07 22:32:12 UTC
From: Gil G.
Topic: 10411 Message: 10421

Thank you Sir! Any idea on price yet? I just wonder how much i should leave on my Paypal account and if you are going to take Paypal, credits cards, or another mean of payment?

Best regards,

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 7, 2013, at 5:10 PM, Steven Weber wrote:

> So, keep tuned, it won't be too much longer...

10422. Re: New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 02:37:51 UTC
From: jgaffke
Topic: 10411 Message: 10422

Gil,
Get your checkbook balanced and stock up on postage stamps.
None of this new-fangled electronic stuff.
Jerry, KE7ER

From message 10254:
That's right check or MO, I will no longer accept payment via paypal except for DX orders.
We'll figure out the details of how that will work later. 72, Steve KD1JV

--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
> Thank you Sir! Any idea on price yet? I just wonder how much i should leave on my Paypal account and if you are going to take Paypal, credits cards, or another mean of payment?

10423. ATS-4B at last.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 02:44:09 UTC
From: Mike Olbrisch
Topic: 10411 Message: 10423

Woo-Hoo..... got my ATS-4B today..... I sent it to Dale 7 months ago, and he got it to me in time for a trip to Germany this summer.

My first question..... I have paged through the manual 3 times now. I admit I have only had 4 hours sleep in the last 28 hours (nights suck), but I have not been able to find anything absolutely certain about the power polarity. And that isn't something I want to experiment with.

Is it center pin positive?

Thanks all.

Mike - KD9KC.

10424. RE: [AT_Sprint] ATS-4B at last.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 02:45:52 UTC
From: Dale Putnam
Topic: 10411 Message: 10424

Center Pin Positive.. sure thing.. and it would be better if you don't have any more than 12 v in.. k?

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: mike-2007@...
Date: Thu, 7 Mar 2013 19:44:09 -0700
Subject: [AT_Sprint] ATS-4B at last.

Woo-Hoo..... got my ATS-4B today..... I sent it to Dale 7 months ago, and he got it to me in time for a trip to Germany this summer. My first question..... I have paged through the manual 3 times now. I admit I have only had 4 hours sleep in the last 28 hours (nights suck), but I have not been able to find anything absolutely certain about the power polarity. And that isn't something I want to experiment with. Is it center pin positive? Thanks all. Mike - KD9KC.

10425. mtr on 15 meters

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 03:46:24 UTC
From: w1dry
Topic: 10425 Message: 10425

Hi all,

I did a search on the group but didn't come up with anything. Has anyone put an MTR on 15 mtrs? Sorry if this question is redundent redundent . . . .

72 de Mike
W1DRY

10426. Re: [AT_Sprint] mtr on 15 meters

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 04:12:08 UTC
From: Hank Greeb
Topic: 10425 Message: 10426

Methinks the DDS doesn't run fast enough on the low cost MTR, so it
won't run on 21 MHz. One of the considerations is that a faster DDS
consumes more power, and power consumption is one big consideration of a
very lightweight rig.

That's what my recollection is ofthe thread a few months ago in this
conference, but short term memory fades rapidly as one ages, so this may
be incorrect.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/7/2013 10:46 PM, w1dry wrote:
> Hi all,
>
> I did a search on the group but didn't come up with anything. Has anyone put an MTR on 15 mtrs? Sorry if this question is redundent redundent . . . .
>
>
> 72 de Mike
> W1DRY
>
>
>
> ----------
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> Yahoo! Groups Links
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10427. RE: [AT_Sprint] mtr on 15 meters

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 04:28:44 UTC
From: Michael Wyman
Topic: 10425 Message: 10427

Hi Hank,

Thanks for such a quick response. Guess I'll have to use my 4B on 15 . . .

72 de Mike

W1DRY

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of Hank Greeb
Sent: Thursday, March 07, 2013 9:12 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] mtr on 15 meters

Methinks the DDS doesn't run fast enough on the low cost MTR, so it won't
run on 21 MHz. One of the considerations is that a faster DDS consumes more
power, and power consumption is one big consideration of a very lightweight
rig.

That's what my recollection is of the thread a few months ago in this
conference, but short term memory fades rapidly as one ages, so this may be
incorrect.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/7/2013 10:46 PM, w1dry wrote:

Hi all,

I did a search on the group but didn't come up with anything. Has anyone
put an MTR on 15 mtrs? Sorry if this question is redundent redundent . . .
.

72 de Mike
W1DRY

Yahoo! Groups Links

10428. RE: [AT_Sprint] ATS-4B at last.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 04:37:46 UTC
From: Mike Olbrisch
Topic: 10411 Message: 10428

Thanks all. Got it. The first thing I noticed is I have no backlight of the display. I need to read the manual to find out how to turn that on and off. That will need to wait until I get some sleep.... right now that would be almost as good as counting sheep. <grin>.

Oh - initial power will be an 800 mah Li-Po battery, about 11.5 vdc. For field use I have the same Sky-LiPo in 350 mah, 500 mah, 800 mah and 1300 mah. They were so cheap I couldn't resist one of each.

Thanks again.

Mike - KD9KC.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Thursday, March 07, 2013 19:46
To: AT Sprint
Subject: RE: [AT_Sprint] ATS-4B at last.

Center Pin Positive.. sure thing.. and it would be better if you don't have any more than 12 v in.. k?

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: mike-2007@...
Date: Thu, 7 Mar 2013 19:44:09 -0700
Subject: [AT_Sprint] ATS-4B at last.

Woo-Hoo..... got my ATS-4B today..... I sent it to Dale 7 months ago, and he got it to me in time for a trip to Germany this summer.

My first question..... I have paged through the manual 3 times now. I admit I have only had 4 hours sleep in the last 28 hours (nights suck), but I have not been able to find anything absolutely certain about the power polarity. And that isn't something I want to experiment with.

Is it center pin positive?

Thanks all.

Mike - KD9KC.

10429. Re: [AT_Sprint] ATS-4B at last.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 05:17:46 UTC
From: Steven Weber
Topic: 10411 Message: 10429

The back light is on all the time, it is only off when the rig is off. It likely wiggled out of the socket in shipping. Take the cover off and apply a little preasure to the bottom corners to set it. Do not push in the middle of the display as that could crack the glass. Thanks all. Got it. The first thing I noticed is I have no backlight of the display. I need to read the manual to find out how to turn that on and off. That will need to wait until I get some sleep.... right now that would be almost as good as counting sheep. <grin>.

10430. RE: [AT_Sprint] ATS-4B at last.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 14:59:59 UTC
From: Mike Olbrisch
Topic: 10411 Message: 10430

Good morning Steve.

You were absolutely correct. I was too sleepy last night to think of that. Following your directions, it came right up. And I was met with another surprise. The photos, and the one I borrowed had an orange display. Mine is green. Not sure it matters to me, I was just expecting orange. I think I actually like the green better.

Looking forward to a first contact with it later today, and many fine outings on SOTA summits, dog shows, and whatever other boring places I end up where it can play.

Thanks again.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Thursday, March 07, 2013 22:18
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] ATS-4B at last.

The back light is on all the time, it is only off when the rig is off. It likely wiggled out of the socket in shipping. Take the cover off and apply a little preasure to the bottom corners to set it. Do not push in the middle of the display as that could crack the glass.
Thanks all. Got it. The first thing I noticed is I have no backlight of the display. I need to read the manual to find out how to turn that on and off. That will need to wait until I get some sleep.... right now that would be almost as good as counting sheep. <grin>.

10431. Re: New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 13:22:39 UTC
From: kc2nyu
Topic: 10411 Message: 10431

Lots of nice comments about the ATS-4B, but are they still available from any source?

73 Paul

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Gil,
> Get your checkbook balanced and stock up on postage stamps.
> None of this new-fangled electronic stuff.
> Jerry, KE7ER
>
> From message 10254:
> That's right check or MO, I will no longer accept payment via paypal except for DX orders. We'll figure out the details of how that will work later. 72, Steve KD1JV
>
> --- In AT_Sprint@yahoogroups.com, "Gil G." <gil@> wrote:
> > Thank you Sir! Any idea on price yet? I just wonder how much i should leave on my Paypal account and if you are going to take Paypal, credits cards, or another mean of payment?
>

10432. Re: [AT_Sprint] Re: New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 15:29:19 UTC
From: Joseph Trombino, Jr
Topic: 10411 Message: 10432

As the ATS4B kits are always in demand I was wondering if this wouldn't be a great product line for Doug Hendricks of QRPkits to pick up??

Steve, KD1JV, has a couple of designs in Dougs stable of kits.

Just a thought.

73, Joe W2KJ

> Lots of nice comments about the ATS-4B, but are they still available from any source?
>
> 73 Paul
>
> --- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> >
> > Gil,
> > Get your checkbook balanced and stock up on postage stamps.
> > None of this new-fangled electronic stuff.
> > Jerry, KE7ER
> >
> > From message 10254:
> > That's right check or MO, I will no longer accept payment via paypal except for DX orders. We'll figure out the details of how that will work later. 72, Steve KD1JV
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> > --- In AT_Sprint@yahoogroups.com, "Gil G." <gil@> wrote:
> > > Thank you Sir! Any idea on price yet? I just wonder how much i should leave on my Paypal account and if you are going to take Paypal, credits cards, or another mean of payment?
> >
>
>

10433. RE: [AT_Sprint] Re: New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 15:41:24 UTC
From: Mike Olbrisch
Topic: 10411 Message: 10433

If he ever re-kits the ATS-4s, I will buy two for the grand-kids. Something we can build together, then they can use - after I retire and have the time.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of kc2nyu
Sent: Friday, March 08, 2013 06:23
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: New MTR ?

Lots of nice comments about the ATS-4B, but are they still available from any source?

73 Paul

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Gil,
> Get your checkbook balanced and stock up on postage stamps.
> None of this new-fangled electronic stuff.
> Jerry, KE7ER
>
> From message 10254:
> That's right check or MO, I will no longer accept payment via paypal except for DX orders. We'll figure out the details of how that will work later. 72, Steve KD1JV
>
> --- In AT_Sprint@yahoogroups.com, "Gil G." <gil@> wrote:
> > Thank you Sir! Any idea on price yet? I just wonder how much i should leave on my Paypal account and if you are going to take Paypal, credits cards, or another mean of payment?
>

Yahoo! Groups Links

10434. Re: [AT_Sprint] Re: New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 17:47:26 UTC
From: mstangelo@...
Topic: 10411 Message: 10434

Doug Hendricks kits use through hols devices. Any SMT parts are pre mounted.

They;re easier to build.

Mike N2MS
----- Original Message -----
From: Joseph Trombino, Jr <jotrom@...>
To: AT Sprint <AT_Sprint@yahoogroups.com>
Sent: Fri, 08 Mar 2013 15:29:19 -0000 (UTC)
Subject: Re: [AT_Sprint] Re: New MTR ?

As the ATS4B kits are always in demand I was wondering if this wouldn't be a great product line for Doug Hendricks of QRPkits to pick up??

Steve, KD1JV, has a couple of designs in Dougs stable of kits.

Just a thought.

73, Joe W2KJ

10435. Re: [AT_Sprint] Re: New MTR ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-08 21:13:31 UTC
From: Bill Noyce
Topic: 10411 Message: 10435

On Mar 8, 2013 12:47 PM, <mstangelo@...> wrote:
>
>
>
> Doug Hendricks kits use through hols devices. Any SMT parts are pre
mounted.

Well, except for the SMK-2. I think Doug expects he'll eventually want to
offer other SMT kits, too.

-- Bill, AB1AV

10436. ATS-3b Help! High receive current and hot ICs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-09 21:44:36 UTC
From: dk7fh
Topic: 10436 Message: 10436

Last year I gladly received a original packed ATS-3b kit (Final Sept. 10 2007 with V 1.8) and meanwhile I assembled it and it worked from the beginning (Still cannot believe it!!!).

I already had some fine qsos on 40m and begin loving this amazing little rig! My compliments and thanks to the constructor Steven!

Some day after a qso as I touched the circuit board it was quite warm. A closer "feel" showed, that U8 and U9 become good warm even in receive mode when working with 9V and really hot when using 12V. As I measure the receive current, no signal, it is 100mA, which seems a lot to much.

So I did troubleshooting back and forth. Controlling the soldering with a real good binocular loupe, checking that I put the right parts in the proper place and so on. I also measured the voltages and found some but as I believe not dramatic differences to the IC Voltage tables.

As I returned to the initial checks (without L3) I recognised, that the PA Gates of Q6 to Q8 were not 0 V but 0.8 V.

So what can I do? Mounting some little heat sinks and providing enough battery capacity?

Thankful for any hint!

Frank, dk7fh, Cologne

10437. Re: ATS-3b Help! High receive current and hot ICs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-10 03:52:25 UTC
From: jgaffke
Topic: 10436 Message: 10437

Should be fixed, or something might fail eventually.
U8 should definitely pull those gates all the way to ground.
If you have a scope you might make sure that it is 0.8 volts DC,
and that you are not just measuring the average of a 7MHz signal.

My best guess would be a solder short under U8.
Unfortunately the manual in the files section for the ATS3B
is missing a few pin numbers for U8 in the schematics, and
the schematics are inconsistent with the photograph in the
manual showing pin 13 of U8 driving the FET's. I don't know
how U8 is actually wired as I do not have an ATS3B.

Check for shorts around U8, perhaps using an ohm meter and
sewing needles for probes. If you don't find anything,
then power it up from a 9 volt battery and record the voltages
to ground at each of the 14 pins around U8 when in receive mode.
If L3 is back in, there should be no voltage you can measure
to ground from either end of L3 when in receive mode.

Let us know what voltages you see.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "dk7fh" <fbrakonier@...> wrote:
> As I returned to the initial checks (without L3) I recognised, that the PA Gates of Q6 to Q8 were not 0 V but 0.8 V.

10438. Re: [AT_Sprint] Re: ATS-3b Help! High receive current and hot ICs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-10 04:32:25 UTC
From: Dale Putnam
Topic: 10436 Message: 10438

It may also be fruitful, to check the finals, to insure they are intact and usable.
Checking the drive to the finals would be interesting too.
Have a great day,
Dale - WC7S

-----Original Message-----
From: jgaffke <jgaffke@yahoo.com>
Date: Sun, 10 Mar 2013 03:52:25
To: <AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] Re: ATS-3b Help! High receive current and hot ICs

Should be fixed, or something might fail eventually.
U8 should definitely pull those gates all the way to ground.
If you have a scope you might make sure that it is 0.8 volts DC,
and that you are not just measuring the average of a 7MHz signal.

My best guess would be a solder short under U8.
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manual showing pin 13 of U8 driving the FET's. I don't know
how U8 is actually wired as I do not have an ATS3B.

Check for shorts around U8, perhaps using an ohm meter and
sewing needles for probes. If you don't find anything,
then power it up from a 9 volt battery and record the voltages
to ground at each of the 14 pins around U8 when in receive mode.
If L3 is back in, there should be no voltage you can measure
to ground from either end of L3 when in receive mode.

Let us know what voltages you see.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> , "dk7fh"
<fbrakonier@...> wrote:
> As I returned to the initial checks (without L3) I recognised, that the PA Gates of Q6 to Q8 were not 0 V but 0.8 V.

10439. Re: ATS-3b Help! High receive current and hot ICs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-10 05:41:31 UTC
From: jgaffke
Topic: 10436 Message: 10439

Dale,
I doubt it is just a matter of damaged FETs, Q5 should be off
during receive so there should be no power through L3 that would
pull the gates up to 0.8 volts even if the finals were internally
shorted.
The drive to the finals is U8, which is where I asked him to take
voltmeter readings. Let us know if you have any ideas on a
specific procedure he might try. I assume he has no scope.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Dale Putnam " <daleputnam@...> wrote:
>
> It may also be fruitful, to check the finals, to insure they are intact and usable.
Checking the drive to the finals would be interesting too.
> Have a great day,
> Dale - WC7S
>

10440. Re: ATS-3b Help! High receive current and hot ICs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-10 11:24:38 UTC
From: dk7fh
Topic: 10436 Message: 10440

Thanks a lot for your quick answers, Jerry and Dale!

I will do some more measurements and ask neighbor-hams who have scopes to help me.

The finals seem to be ok. In comparison to my FT-817 the power output is as expected. And the rest works fine as well. I am just afraid of damaging my kit by heat and overcurrent.

The dicrepancy between the schematics and the wirering on the cicuit board is a problem now. I will check the fotos I took from the board before assembling.

You will hear from me as soon as I have some new infos.

73s, Frank

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Should be fixed, or something might fail eventually.
> U8 should definitely pull those gates all the way to ground.
> If you have a scope you might make sure that it is 0.8 volts DC,
> and that you are not just measuring the average of a 7MHz signal.
>
> My best guess would be a solder short under U8.
> Unfortunately the manual in the files section for the ATS3B
> is missing a few pin numbers for U8 in the schematics, and
> the schematics are inconsistent with the photograph in the
> manual showing pin 13 of U8 driving the FET's. I don't know
> how U8 is actually wired as I do not have an ATS3B.
>
> Check for shorts around U8, perhaps using an ohm meter and
> sewing needles for probes. If you don't find anything,
> then power it up from a 9 volt battery and record the voltages
> to ground at each of the 14 pins around U8 when in receive mode.
> If L3 is back in, there should be no voltage you can measure
> to ground from either end of L3 when in receive mode.
>
> Let us know what voltages you see.
>
> Jerry, KE7ER
>
>
> --- In AT_Sprint@yahoogroups.com, "dk7fh" <fbrakonier@> wrote:
> > As I returned to the initial checks (without L3) I recognised, that the PA Gates of Q6 to Q8 were not 0 V but 0.8 V.
>

10441. FS: QSBA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-10 16:09:34 UTC
From: on7bny
Topic: 10441 Message: 10441

Hi all,

cleaning up the desk... have a 90% completed QSBA for sale.
What's not completed? I never found a proper enclosure, so connectors & standoffs did not make it to the board yet. Otherwise in pristine (unused condition)
I'm letting it go for $50 + shipping cost (tbd).
please contact me off-list, emails will be processed in order of arrival...

best regards,

Benny.

10442. FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-10 16:19:31 UTC
From: on7bny
Topic: 10442 Message: 10442

Hi all,

cleaning up the desk... have an unbuild MTR gathering dust. Still did not find the time to build it, and anyway realizing my ATS4 meets my needs more than an MTR. Maybe someone has a better use for it than me?
Price = $100 + shipping cost (tbd).
The ti launchpad you'll get as bonus.
Please contact me off-list, emails will be processed in order of arrival...

best regards,

Benny.

10443. Re: [AT_Sprint] FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-10 17:32:31 UTC
From: J Brown
Topic: 10442 Message: 10443

I will buy if not already sold

73,
Jerry N4EO

On Sun, Mar 10, 2013 at 11:19 AM, on7bny <on7bny@...> wrote:

> **
>
>
> Hi all,
>
> cleaning up the desk... have an unbuild MTR gathering dust. Still did not
> find the time to build it, and anyway realizing my ATS4 meets my needs more
> than an MTR. Maybe someone has a better use for it than me?
> Price = $100 + shipping cost (tbd).
> The ti launchpad you'll get as bonus.
> Please contact me off-list, emails will be processed in order of arrival...
>
> best regards,
>
> Benny.
>
>
>

10444. Re: [AT_Sprint] FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-10 18:00:09 UTC
From: James Fehling
Topic: 10442 Message: 10444

Benny, i would love the mtr, i am in ny. Let me know what to do to get payment to you, thanks n2jfd
On Mar 10, 2013 12:19 PM, "on7bny" <on7bny@telenet.be> wrote:

> **
>
>
> Hi all,
>
> cleaning up the desk... have an unbuild MTR gathering dust. Still did not
> find the time to build it, and anyway realizing my ATS4 meets my needs more
> than an MTR. Maybe someone has a better use for it than me?
> Price = $100 + shipping cost (tbd).
> The ti launchpad you'll get as bonus.
> Please contact me off-list, emails will be processed in order of arrival...
>
> best regards,
>
> Benny.
>
>
>

10445. Re: FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-10 20:37:40 UTC
From: on7bny
Topic: 10442 Message: 10445

tnx for all who have mailed, but the MTR has been spoken for...

--- In AT_Sprint@yahoogroups.com, "on7bny" <on7bny@...> wrote:
>
> Hi all,
>
> cleaning up the desk... have an unbuild MTR gathering dust. Still did not find the time to build it, and anyway realizing my ATS4 meets my needs more than an MTR. Maybe someone has a better use for it than me?
> Price = $100 + shipping cost (tbd).
> The ti launchpad you'll get as bonus.
> Please contact me off-list, emails will be processed in order of arrival...
>
> best regards,
>
> Benny.
>

10446. Re: FS: QSBA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-10 20:39:37 UTC
From: on7bny
Topic: 10441 Message: 10446

Also here tnx for all reply's, the QSBA has been spoken for.

br, Benny.

--- In AT_Sprint@yahoogroups.com, "on7bny" <on7bny@...> wrote:
>
> Hi all,
>
> cleaning up the desk... have a 90% completed QSBA for sale.
> What's not completed? I never found a proper enclosure, so connectors & standoffs did not make it to the board yet. Otherwise in pristine (unused condition)
> I'm letting it go for $50 + shipping cost (tbd).
> please contact me off-list, emails will be processed in order of arrival...
>
> best regards,
>
> Benny.
>

10447. Re: ATS-3b Help! High receive current and hot ICs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-10 22:27:06 UTC
From: dk7fh
Topic: 10436 Message: 10447

PROBLEM SOLVED !!! --> BAD SOLDERING

Jerry, Wolfgang (who called me by phone!) and Dale many thanks again for your help !!!!

How did it come?

First I obtained a datasheet of the 74AC02 (U8 NOR gates). Then I measured the voltages around this IC and pin 7 which was ment to be ground had 0.7V! And there it was. The leg was soldered but underneath with bad contact to the board.

Minutes later everything seemed to be as it should: receive current 35mA, gates of the finals 0V and normal temperature, transmitting and receiving ok.

THANK GOODNESS !

Now I am looking forward for many qsos and much fun with this tiny rig.

Good evening and good night to everybody and have a good start towards the new week!

Glad Frank, dk7fh

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Dale,
> I doubt it is just a matter of damaged FETs, Q5 should be off
> during receive so there should be no power through L3 that would
> pull the gates up to 0.8 volts even if the finals were internally
> shorted.
> The drive to the finals is U8, which is where I asked him to take
> voltmeter readings. Let us know if you have any ideas on a
> specific procedure he might try. I assume he has no scope.
> Jerry, KE7ER
>
>
> --- In AT_Sprint@yahoogroups.com, "Dale Putnam " <daleputnam@> wrote:
> >
> > It may also be fruitful, to check the finals, to insure they are intact and usable.
Checking the drive to the finals would be interesting too.
> > Have a great day,
> > Dale - WC7S
> >
>

10448. Re: ATS-3b Help! High receive current and hot ICs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-11 01:28:24 UTC
From: jgaffke
Topic: 10436 Message: 10448

Frank,
Good to hear you got it fixed! I think you're done!
But I'm still puzzled as to why things were heating up.

The newer "ATS3B1" manual does show U8's pin 13 driving the FETs.
With pin 7 not soldered to board ground, power supply currents
would have to exit through the protection diodes at two input
pins that are grounded. So the 74AC02's internal ground would
be a half volt or so above board ground, and it could not
pull pin 13 all the way to ground. That much makes sense.
However, not obvious to me why it would suck an extra 70 ma.
I was expecting the problem to be something more like an output
shorted to an input putting a NOR gate in the transition region.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "dk7fh" <fbrakonier@...> wrote:
> PROBLEM SOLVED !!! --> BAD SOLDERING

10449. Re: [AT_Sprint] ATS-3b Help! High receive current and hot ICs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-11 02:54:41 UTC
From: Johnny Matlock
Topic: 10436 Message: 10449

Good going Frank!
Glad you got your little rig working.
You had some pretty great support hams on you side!
Those little spider legs on the chips can be deceiving.
I had some problems with those on my MTR build.
72 es gud DX
Johnny AC0BQ

On Sunday, March 10, 2013, dk7fh wrote:

> **
>
>
> PROBLEM SOLVED !!! --> BAD SOLDERING
>
> Jerry, Wolfgang (who called me by phone!) and Dale many thanks again for
> your help !!!!
>
> How did it come?
>
> First I obtained a datasheet of the 74AC02 (U8 NOR gates). Then I measured
> the voltages around this IC and pin 7 which was ment to be ground had 0.7V!
> And there it was. The leg was soldered but underneath with bad contact to
> the board.
>
> Minutes later everything seemed to be as it should: receive current 35mA,
> gates of the finals 0V and normal temperature, transmitting and receiving
> ok.
>
> THANK GOODNESS !
>
> Now I am looking forward for many qsos and much fun with this tiny rig.
>
> Good evening and good night to everybody and have a good start towards the
> new week!
>
> Glad Frank, dk7fh
>
> --- In AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint%40yahoogroups.com');>, "jgaffke" <jgaffke@...> wrote:
> >
> > Dale,
> > I doubt it is just a matter of damaged FETs, Q5 should be off
> > during receive so there should be no power through L3 that would
> > pull the gates up to 0.8 volts even if the finals were internally

> > shorted.
> > The drive to the finals is U8, which is where I asked him to take
> > voltmeter readings. Let us know if you have any ideas on a
> > specific procedure he might try. I assume he has no scope.
> > Jerry, KE7ER
> >
> >
> > --- In AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint%40yahoogroups.com');>, "Dale Putnam " <daleputnam@> wrote:
> > >
> > > It may also be fruitful, to check the finals, to insure they are
> intact and usable. Checking the drive to the finals would be interesting
> too.
> > > Have a great day,
> > > Dale - WC7S
> > >
> >
>
>
>

10450. Re: ATS-3b Help! High receive current and hot ICs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-11 05:38:49 UTC
From: jgaffke
Topic: 10436 Message: 10450

```
--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> ... But I'm still puzzled as to why things were heating up...

Might be the parasitic PNP/NPN transistors inherent in CMOS chips:
http://www.fairchildsemi.com/an/AN/AN-600.pdf
Once you exceed the "Absolute Maximum Ratings" (input voltage
went well below chip's ground pin), most anything might happen.

If anyone out there can shed more light on this, I'm all ears.
Might accidentally learn something.

Jerry, KE7ER
```

10451. Hunt in the 40 acre woods!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-11 18:05:04 UTC
From: Dale Putnam
Topic: 10451 Message: 10451

The 40 acre hunt with NK6A and N0UR, Don and Jim, as Foxii will begin Tueday evening (local time) at the same local time as always.. so set your zulu alarm clock to wake the zulu folks at 0100. That way they won't be late (r). ;-) Good Luck to each and every one of us hounds.. and of course to the two FOXii...
May the Props be EVER in YOUR favor!!

--... ...--
Dale - WC7S in Wy

10452. Tribander on 60m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-11 19:40:43 UTC
From: win_ker
Topic: 10452 Message: 10452

I know an MTR has been modified for 60m, I just wonder if a Tribander has had the same treatment. I've ordered one for 30, 17 and 15m but would like to replace 30m with 60m for sota activations. I have 30m covered with another rig.

I'm assuming I'd need some new firmware and obviously some work on the low pass filtering.

73,
Ian MM0GYX

10453. Re: [AT_Sprint] Tribander on 60m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-11 19:57:41 UTC
From: Peter Martin
Topic: 10452 Message: 10453

On 11 Mar 2013 19:42, "win_ker" <ian@...> wrote:
>
> I know an MTR has been modified for 60m, I just wonder if a Tribander has had the same treatment. I've ordered one for 30, 17 and 15m but would like to replace 30m with 60m for sota activations. I have 30m covered with another rig.
>
> I'm assuming I'd need some new firmware and obviously some work on the low pass filtering.
>
> 73,
> Ian MM0GYX
>
>

Ian,
See message below that Steve sent to me when querying filter component values.
It appears that 60 is already a tribander option.
Pete
G4ISJ

On 16 Jan 2013 23:51, "Steven Weber" <steve.kd1jv@...> wrote:
These are the values I came up with to put the Tribander on 60M, but are for producing 5 watts at 13.8V supply.

The PA side inductor value will likely need to be changed and the number of turns redone for a T30-2 core:

PA > 680p (20 turns on T37-2) 1200 p (20 turns T37-2 || 150 p) 680 p > ANT

As far as the receiver side I used 22 ufd inductors with 70 pfd trimmers. Since the trimmers on the MTR are only 30 p, pad approperately.

Steve KD1JV

10454. Re: [AT_Sprint] Tribander on 60m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-12 17:02:59 UTC
From: Steven Weber
Topic: 10452 Message: 10454

I'm not sure if Doug has started shipping kits with the processor which has the 60M band included or not. If you just ordered it, ask Doug to send the new processor if it is not already in there. I have not checked to see if the online manual has been updated to include the 60M band data or not either. If it does, then the kit will likey have the new frimware in it.

KD1JV

>I know an MTR has been modified for 60m, I just wonder if a Tribander has
>had the same treatment. I've ordered one for 30, 17 and 15m but would like
>to replace 30m with 60m for sota activations. I have 30m covered with
>another rig.
>
> I'm assuming I'd need some new firmware and obviously some work on the low
> pass filtering.
>
> 73,
> Ian MM0GYX
>
>
>

10455. Re: Tribander on 60m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-12 22:39:23 UTC
From: win_ker
Topic: 10452 Message: 10455

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> I'm not sure if Doug has started shipping kits with the processor which has
> the 60M band included or not. If you just ordered it, ask Doug to send the
> new processor if it is not already in there. I have not checked to see if
> the online manual has been updated to include the 60M band data or not
> either. If it does, then the kit will likey have the new frimware in it.
>
> KD1JV
>
>
>
Peter & Steven,

Thanks for the replies, Steven I have just emailed Doug querying the processor. I also notice the manual has 60m option detailed on the spec. page. It wasn't an option on the order page, I'm reading on.

Many thanks for the direction.

Ian, MM0GYX

10456. Re: Tribander on 60m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-12 22:59:25 UTC
From: win_ker
Topic: 10452 Message: 10456

--- In AT_Sprint@yahoogroups.com, "win_ker" <ian@...> wrote:
>
>
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@> wrote:
> >
> > I'm not sure if Doug has started shipping kits with the processor which has
> > the 60M band included or not. If you just ordered it, ask Doug to send the
> > new processor if it is not already in there. I have not checked to see if
> > the online manual has been updated to include the 60M band data or not
> > either. If it does, then the kit will likey have the new frimware in it.
> >
> > KD1JV
> >
> >
> >
> Peter & Steven,
>
> Thanks for the replies, Steven I have just emailed Doug querying the processor. I also notice the manual has 60m option detailed on the spec. page. It wasn't an option on the order page, I'm reading on.
>
> Many thanks for the direction.
>
> Ian, MM0GYX
>

Steven,

I may have been a little hasty, I can see the details regarding 60m now in the manual, I notice there are 5 channels representing the US shared allocation. They are fixed frequencies and if the tuning is altered it amounts to a 900hz RIT function only. I would like to operate with my NOV and observing the UK 5 meg whiteboard within the region 5.285 - 5.264 Mhz for cw. I assume this is what Peter has configured his mtr to do.

Regards,
Ian, MM0GYX

10457. Re: [AT_Sprint] Re: Tribander on 60m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-13 00:10:03 UTC
From: Steven Weber
Topic: 10452 Message: 10457

Sorry then, your out of luck. I had to configure the band to comform to US laws and I can't have two options on how to use the band. I was barely able to squeeze in the US channel configuration into the chip, I think there are about 5 unused bytes left.

KD1JV

> I may have been a little hasty, I can see the details regarding 60m now in
> the manual, I notice there are 5 channels representing the US shared
> allocation. They are fixed frequencies and if the tuning is altered it
> amounts to a 900hz RIT function only. I would like to operate with my NOV
> and observing the UK 5 meg whiteboard within the region 5.285 - 5.264 Mhz
> for cw. I assume this is what Peter has configured his mtr to do.
>

10458. Re: Tribander on 60m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-13 07:18:46 UTC
From: win_ker
Topic: 10452 Message: 10458

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Sorry then, your out of luck. I had to configure the band to comform to US
> laws and I can't have two options on how to use the band. I was barely able
> to squeeze in the US channel configuration into the chip, I think there are
> about 5 unused bytes left.
>
> KD1JV

Hi Steven,

Ok that's understood, many thanks for getting back to me.

73,
Ian, MM0GYX

10459. NAQCC Sprint Wednesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-18 19:40:13 UTC
From: NAQCC
Topic: 2848 Message: 10459

NAQCC Sprint Wednesday night!

Our March sprint is this coming Wednesday evening local time (March 20, EDT - 8:30-10:30PM, CDT - 7:30-9:30PM, MDT - 6:30-8:30PM, PDT - 5:30-7:30PM), which translates as Thursday March 21, 0030 to 0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201303.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX for 1st, 2nd and 3rd place finishers (New!). A Certificate for top score in the GAIN antenna category.

Prizes: Too many to list!! - check out the prizes page on our website.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you've been hesitant to join in our sprints because you hear other sprints running at breakneck speeds, have no fear. Our sprints are geared to the newcomer to CW and/or contesting. Virtually everyone including the many veteran contesters who regularly enter our sprints will slow down to YOUR speed to help you make your contacts.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6570+ members in: All 50 States - 9 VE Provinces - 93 Countries. Sign up on the NAQCC website today (http://naqcc.info/) and receive a handsome certificate, with your membership number on it, which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

10460. Very quiet on the AT Sprint reflector???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-19 22:27:20 UTC
From: Phil Townsend Lontz
Topic: 2848 Message: 10460

Very quite indeed…. Whats up???

10461. Re: Very quiet on the AT Sprint reflector???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-19 22:38:28 UTC
From: Colin
Topic: 2848 Message: 10461

I think everyone is just waiting for Steve to finish with the maple syrup and open up ordering for the MTR :-)

I was intending to send a post stating how much I'm enjoying operating with my MTR, but I didn't get around to it. I had the MTR out on Friday from SOTA summit G/NP-009 Buckden Pike in the Yorkshire Dales, UK.

I worked a couple of US stations and one Canadian on 20m, using the MTR with a 2S LiPo. My QSO tally was 40, split between 40m and 20m .

Not much more fun can be squeezed into an Altoids tin!

73, Colin M0CGH

--- In AT_Sprint@yahoogroups.com, Phil Townsend Lontz <philji@...> wrote:
>
> Very quite indeed . Whats up
>

10462. MTR update!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-19 22:45:13 UTC
From: Steven
Topic: 10462 Message: 10462

Hi Gang,

The new enclosures came in from Ten-Tec today, dispite the Nor'easter raging outside. I felt kinda bad for the UPS guy who had to lug the 47 pound box up my driveway through 6" of snow. But he showed up early so I wasn't on the look out for him.

The boxes look really nice, you will be impressed I'm sure. Rats, they won't let me insert a picture to the message, will have to put it in the photo album then. I'll put it in the MTR folder.

So, we're almost ready to start taking reservations for the kit. I'll make a seperate annoucement with the details soon. I started bagging parts the other day and discovered I had been sent a wrong value resistor. I ordered 14K 1% and got 140K 1%. I also realised I needed bumper feet since we now have an enclosure, so had to order those too. They should be here by the end of the week, I hope. In the mean time, I'll kit up all the stuff I can until those two things show up and I can finish.

Oh, I decided not to change the the firmware after all. I got to thinking with all the problems I had getting it right last time, I had best not fool with it and risk inducing any new bugs. So, calibration mode is intack, along with the Pocketdigi mode.

One last thing, I only have enclosures for new, full kits. Extra enclosures for existing kits will not be ready for another month, but I'll be out hiking on the AT at that point. So, those wanting a case for thier existing MTR will have to wait until I get back the end of May or beginning of June. Sorry about that. In fact I leave April 8th, so we have to get these new kits out pretty quick.

72, Steve KD1JV

10463. Re: MTR update!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-19 22:49:52 UTC
From: luke_308
Topic: 10462 Message: 10463

Thanks for the update! Anxiously awaiting the final release!

Luke
KD0FIN

10464. New MTR enclosure picture

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-19 22:51:37 UTC
From: Steven
Topic: 10464 Message: 10464

Is located in the photo section under "new MTR enclosure"
Steve

10465. RE: [AT_Sprint] Re: Very quiet on the AT Sprint reflector???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-19 22:54:46 UTC
From: Mike Olbrisch
Topic: 2848 Message: 10465

Well - I finally got my ATS-4B, although somehow 30m isn't working on it.
Reads about 66 MHz on the display.

I just finished building a tuner for a EFHW antenna. I am looking at
building a EFHWA for 40m, 30, 20m, 17m and 15m, using either small switches
or Bullet Terminals.

http://tinyurl.com/ce2zyj5

The antenna will be set up as an inverted-L, on a 15 ft fiberglass pole.
Hope to have it working real soon now. Time will tell.

Who-else is getting ready for summer?

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of Colin
Sent: Tuesday, March 19, 2013 16:38
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Very quiet on the AT Sprint reflector???

I think everyone is just waiting for Steve to finish with the maple syrup
and open up ordering for the MTR :-)

I was intending to send a post stating how much I'm enjoying operating with
my MTR,
but I didn't get around to it. I had the MTR out on Friday from SOTA summit
G/NP-009 Buckden Pike in the Yorkshire Dales, UK.

I worked a couple of US stations and one Canadian on 20m, using the MTR with
a 2S LiPo. My QSO tally was 40, split between 40m and 20m .

Not much more fun can be squeezed into an Altoids tin!

73, Colin M0CGH

--- In AT_Sprint@yahoogroups.com, Phil Townsend Lontz <philji@...> wrote:
>
> Very quite indeed.. Whats up
>

Yahoo! Groups Links

10466. Re: [AT_Sprint] New MTR enclosure picture

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-19 23:21:41 UTC
From: Johnny Matlock
Topic: 10464 Message: 10466

Nice little enclosure Steve, good job!
Johnny AC0BQ

On Tue, Mar 19, 2013 at 5:51 PM, Steven <steve.kd1jv@...> wrote:

> **
>
>
> Is located in the photo section under "new MTR enclosure"
> Steve
>
>
>

10467. Parts help - please.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-19 23:54:31 UTC
From: Mike Olbrisch
Topic: 10467 Message: 10467

I am ordering (trying to order) the power plug for the ATS-4B. The manual parts listing says it is a PN# 163-4018-EX, 1.8mm.

When I type that part number into Mouser, it says a 1.7 x 4.4 mm POWER JACK!

Anyone got a good PN# for it, might be faster than searching through them all.

Thanks.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

10468. Re: [AT_Sprint] Parts help - please.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 00:28:29 UTC
From: Scott Zastoupil
Topic: 10467 Message: 10468

In looking at the manual in the files section, it calls out a Mouser PN: 171-3219-EX. The text is highlighted in red, so it was probably an update.

Scott, KB0KFX

From: Mike Olbrisch <mike-2007@...>
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, March 19, 2013 6:54 PM
Subject: [AT_Sprint] Parts help - please.

I am ordering (trying to order) the power plug for the ATS-4B. The manual parts listing says it is a PN# 163-4018-EX, 1.8mm.

When I type that part number into Mouser, it says a 1.7 x 4.4 mm POWER JACK!

Anyone got a good PN# for it, might be faster than searching through them all.

Thanks.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

10469. Re: [AT_Sprint] Parts help - please.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 00:30:26 UTC
From: Scott Cowling
Topic: 10467 Message: 10469

Hi Mike,

Try Mouser 171-3219-EX, from the corrected parts list.

73,
Scotty WA2DFI

At 17:54 2013-03-19 -0600, you wrote:
>I am ordering (trying to order) the power plug for the ATS-4B. The manual
>parts listing says it is a PN# 163-4018-EX, 1.8mm.
>
>When I type that part number into Mouser, it says a 1.7 x 4.4 mm POWER JACK!
>
>Anyone got a good PN# for it, might be faster than searching through them
>all.
>
>Thanks.
>
>
>Vy73 - Mike - KD9KC.
>El Paso, Texas - DM61rt.
>W5-SOTA Association Manager.
>NA-SOTA info: http://na-sota.org/
>
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>
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>
>Yahoo! Groups Links
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>
>

10470. Re: [AT_Sprint] Parts help - please.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 00:48:10 UTC
From: Steven Weber
Topic: 10467 Message: 10470

That's a typo, it is 1.7 mm

>I am ordering (trying to order) the power plug for the ATS-4B. The manual
> parts listing says it is a PN# 163-4018-EX, 1.8mm.
>
> When I type that part number into Mouser, it says a 1.7 x 4.4 mm POWER
> JACK!

10471. Re: MTR update!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-19 23:08:09 UTC
From: mdweezer
Topic: 10462 Message: 10471

Steve,

Fantastic!

How can we ready ourselves to make the purchase as easy on you as possible? I recall some discussion previously, but I don't know if you settled on a method of how you'll accept orders this go around. I missed the last batch, so I'd like to be ready so I can get in on the this batch!

The case looks great - can't wait to finally get a hold of one!

73,
-Matt, W2MDW

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
>
> Hi Gang,
>
> The new enclosures came in from Ten-Tec today, dispite the Nor'easter
> raging outside. I felt kinda bad for the UPS guy who had to lug the 47
> pound box up my driveway through 6" of snow. But he showed up early so I
> wasn't on the look out for him.
>
> The boxes look really nice, you will be impressed I'm sure. Rats, they
> won't let me insert a picture to the message, will have to put it in the
> photo album then. I'll put it in the MTR folder.
>
> So, we're almost ready to start taking reservations for the kit. I'll
> make a seperate annoucement with the details soon. I started bagging
> parts the other day and discovered I had been sent a wrong value
> resistor. I ordered 14K 1% and got 140K 1%. I also realised I needed
> bumper feet since we now have an enclosure, so had to order those too.
> They should be here by the end of the week, I hope. In the mean time,
> I'll kit up all the stuff I can until those two things show up and I can
> finish.
>
> Oh, I decided not to change the the firmware after all. I got to
> thinking with all the problems I had getting it right last time, I had
> best not fool with it and risk inducing any new bugs. So, calibration
> mode is intack, along with the Pocketdigi mode.
>
> One last thing, I only have enclosures for new, full kits. Extra
> enclosures for existing kits will not be ready for another month, but
> I'll be out hiking on the AT at that point. So, those wanting a case for
> thier existing MTR will have to wait until I get back the end of May or

> beginning of June. Sorry about that. In fact I leave April 8th, so we
> have to get these new kits out pretty quick.
>
> 72, Steve KD1JV
>

10472. Re: [AT_Sprint] New MTR enclosure picture

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-19 23:24:55 UTC
From: WVØH
Topic: 10464 Message: 10472

Oops, sorry. Never mind, I didn't see the manual in the files section.

Myron WVØH
Printed on Recycled Data

On Mar 19, 2013, at 4:51 PM, "Steven" <steve.kd1jv@...> wrote:

> Is located in the photo section under "new MTR enclosure"
> Steve
>
>

10473. Re: [AT_Sprint] MTR update!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-19 23:20:48 UTC
From: WVØH
Topic: 10462 Message: 10473

Hello Steve,

Can you send us a link for the new MTR? I'm interested.

Myron WVØH
Printed on Recycled Data

On Mar 19, 2013, at 4:45 PM, "Steven" <steve.kd1jv@...> wrote:

> Hi Gang,
>
> The new enclosures came in from Ten-Tec today, dispite the Nor'easter raging outside. I felt kinda bad for the UPS guy who had to lug the 47 pound box up my driveway through 6" of snow. But he showed up early so I wasn't on the look out for him.
>
> The boxes look really nice, you will be impressed I'm sure. Rats, they won't let me insert a picture to the message, will have to put it in the photo album then. I'll put it in the MTR folder.
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> So, we're almost ready to start taking reservations for the kit. I'll make a seperate annoucement with the details soon. I started bagging parts the other day and discovered I had been sent a wrong value resistor. I ordered 14K 1% and got 140K 1%. I also realised I needed bumper feet since we now have an enclosure, so had to order those too. They should be here by the end of the week, I hope. In the mean time, I'll kit up all the stuff I can until those two things show up and I can finish.
>
> Oh, I decided not to change the the firmware after all. I got to thinking with all the problems I had getting it right last time, I had best not fool with it and risk inducing any new bugs. So, calibration mode is intack, along with the Pocketdigi mode.
>
> One last thing, I only have enclosures for new, full kits. Extra enclosures for existing kits will not be ready for another month, but I'll be out hiking on the AT at that point. So, those wanting a case for thier existing MTR will have to wait until I get back the end of May or beginning of June. Sorry about that. In fact I leave April 8th, so we have to get these new kits out pretty quick.
>
> 72, Steve KD1JV
>
>
>
>
>
>

10474. Re: [AT_Sprint] Re: Very quiet on the AT Sprint reflector???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 02:03:57 UTC
From: Steven Weber
Topic: 2848 Message: 10474

> Well - I finally got my ATS-4B, although somehow 30m isn't working on it.
> Reads about 66 MHz on the display.
>

Mike, there was a bug in an early batch of kits which caused the problem of reading 66 MHz which was caused when exiting the calibration mode. There was a way to avoid that from happening, but now that it has the only way to fix it is to re-flash the chip. I would be happy to do that if you send the rig to me.

Steve KD1JV

10475. Re: MTR update!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 02:19:27 UTC
From: querencias
Topic: 10462 Message: 10475

Almost like Christmas! The enclosure is terrific - panting and drooling waiting for the phrase : "Gentlemen : Start your checkbooks!"

72 de KT6L

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
>
> Hi Gang,
>
> The new enclosures came in from Ten-Tec today, dispite the Nor'easter
> raging outside. I felt kinda bad for the UPS guy who had to lug the 47
> pound box up my driveway through 6" of snow. But he showed up early so I
> wasn't on the look out for him.
>
> The boxes look really nice, you will be impressed I'm sure. Rats, they
> won't let me insert a picture to the message, will have to put it in the
> photo album then. I'll put it in the MTR folder.
>
> So, we're almost ready to start taking reservations for the kit. I'll
> make a seperate annoucement with the details soon. I started bagging
> parts the other day and discovered I had been sent a wrong value
> resistor. I ordered 14K 1% and got 140K 1%. I also realised I needed
> bumper feet since we now have an enclosure, so had to order those too.
> They should be here by the end of the week, I hope. In the mean time,
> I'll kit up all the stuff I can until those two things show up and I can
> finish.
>
> Oh, I decided not to change the the firmware after all. I got to
> thinking with all the problems I had getting it right last time, I had
> best not fool with it and risk inducing any new bugs. So, calibration
> mode is intack, along with the Pocketdigi mode.
>
> One last thing, I only have enclosures for new, full kits. Extra
> enclosures for existing kits will not be ready for another month, but
> I'll be out hiking on the AT at that point. So, those wanting a case for
> thier existing MTR will have to wait until I get back the end of May or
> beginning of June. Sorry about that. In fact I leave April 8th, so we
> have to get these new kits out pretty quick.
>
> 72, Steve KD1JV
>

10476. Re: New MTR enclosure picture

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 02:30:19 UTC
From: D. J. McBride
Topic: 10464 Message: 10476

The new MTR enclosure looks FANTASTIC!

I can't wait to re-package mine when they become available to 'current owners', as they say.

What a great job with the silk-screening and nice cutouts, Steve.

72/73,
Don K3RLL

10477. Re: Very quiet on the AT Sprint reflector???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 02:33:33 UTC
From: wa2ohf
Topic: 2848 Message: 10477

I"m probably dumb but what is a AT Sprint reflector?
is that this system also I hear about the 3905 century club reflector and the DX reflector
?
I could use an explanation ?
Arthur NS7E

--- In AT_Sprint@yahoogroups.com, Phil Townsend Lontz <philji@...> wrote:
>
> Very quite indeed . Whats up???
>

10478. RE: [AT_Sprint] Parts help - please.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 03:56:11 UTC
From: Mike Olbrisch
Topic: 10467 Message: 10478

Thank you Scott. Yeah - the part number in my manual (also in RED) turned out to be the chassis jack, not the plug.

I actually had the drawing of the one you indicate on my screen when your E-mail came in. Just ordered 10, a lifetime supply.

Thank you much sir...

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Scott Zastoupil
Sent: Tuesday, March 19, 2013 18:28
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Parts help - please.

In looking at the manual in the files section, it calls out a Mouser PN: 171-3219-EX. The text is highlighted in red, so it was probably an update.

Scott, KB0KFX

From: Mike Olbrisch <mike-2007@...>
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, March 19, 2013 6:54 PM
Subject: [AT_Sprint] Parts help - please.

I am ordering (trying to order) the power plug for the ATS-4B. The manual parts listing says it is a PN# 163-4018-EX, 1.8mm.

When I type that part number into Mouser, it says a 1.7 x 4.4 mm POWER JACK!

Anyone got a good PN# for it, might be faster than searching through them all.

Thanks.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

10479. RE: [AT_Sprint] Parts help - please.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 03:58:23 UTC
From: Mike Olbrisch
Topic: 10467 Message: 10479

Thank you sir - 10 now on order.

The local rat-shack has some sales-people in it that are too dense for words, I avoid going there, not good for my blood pressure.

I liked it much better when WA5KYV and W2BFI worked at Rat-Shack. But quitting was better for their blood pressure I guess. <grin>.

Thanks again.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Scott Cowling
Sent: Tuesday, March 19, 2013 18:30
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Parts help - please.

Hi Mike,

Try Mouser 171-3219-EX, from the corrected parts list.

73,
Scotty WA2DFI

At 17:54 2013-03-19 -0600, you wrote:
>I am ordering (trying to order) the power plug for the ATS-4B. The manual
>parts listing says it is a PN# 163-4018-EX, 1.8mm.
>
>When I type that part number into Mouser, it says a 1.7 x 4.4 mm POWER JACK!
>
>Anyone got a good PN# for it, might be faster than searching through them
>all.
>
>Thanks.
>
>
>Vy73 - Mike - KD9KC.
>El Paso, Texas - DM61rt.
>W5-SOTA Association Manager.
>NA-SOTA info: http://na-sota.org/
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>Yahoo! Groups Links
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Yahoo! Groups Links

10480. Re: [AT_Sprint] Re: Very quiet on the AT Sprint reflector???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 04:17:59 UTC
From: Rich
Topic: 2848 Message: 10480

A reflector is a place where you send an email, and it reflects it out
to all the subscribers. For example: AT_Sprint@yahoogroups.com
<mailto:AT_Sprint%40yahoogroups.com>

Rich
NU6T

On 3/19/2013 7:33 PM, wa2ohf wrote:
>
> I"m probably dumb but what is a AT Sprint reflector?
> is that this system also I hear about the 3905 century club reflector
> and the DX reflector ?
> I could use an explanation ?
> Arthur NS7E
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>,
> Phil Townsend Lontz <philji@...> wrote:
> >
> > Very quite indeed.... Whats up???
> >
>
>

10481. Order/ reserve your MTR kit now

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 05:55:38 UTC
From: Steven
Topic: 10481 Message: 10481

First, the price:

$120.00 plus postage, shipped priority mail, flat rate.

Please email me direct to order/reserve a kit : steve.kd1jv@...

Subject : MTR order

Please include your name and address which I can cut and paste to make a mailing label with. I will confirm your order as soon as I can. It might take up to 24 hours, so don't frett if you don't hear back right away.

Once confirmed, US orders please mail check or money order with $6.00 postage ($126.00)

DX orders (Including Canada) can use PayPal, I will send you a link when I confirm the order. Postage to Canada is $14.00 and any where else is $24.00. International Priority mail rates took a big jump recently. Insanely expensive, but it does get you the package in a reasonable time frame.

Thanks!!

72, Steve KD1JV

10482. AW: [AT_Sprint] Order/ reserve your MTR kit now

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 06:50:30 UTC
From: A.-L. und J. Allemann
Topic: 10481 Message: 10482

Hallo Steve,

I would like to order the new MTR with case.
Please give me a confirmation e-mail and I will send you
the money as usual.
Thanks in advance!

vy 73 de Jürg / HB9BAB

Jürg Allemann
Bordacherstr. 23
8108 Dällikon

Switzerland

----Ursprüngliche Nachricht----
Von: steve.kd1jv@...
Datum: 20.03.2013 06:55
An:
<AT_Sprint@...m>
Betreff: [AT_Sprint] Order/ reserve your MTR kit now

First, the price:

$120.00 plus
postage, shipped priority mail, flat rate.

Please email me direct to order/reserve a kit : steve.kd1jv@...

Subject : MTR order

Please include your name and address which I can cut and paste to make a mailing label with. I
will confirm your order as soon as I can. It might take up to 24 hours, so don't frett if you don't hear back right
away.

Once confirmed, US orders please mail check or money order with $6.00 postage ($126.00)

DX orders (Including
Canada) can use PayPal, I will send you a link when I confirm the order. Postage to Canada is $14.00 and any where else
is $24.00. International Priority mail rates took a big jump recently. Insanely expensive, but it does get you the
package in a reasonable time frame.

Thanks!!

72, Steve KD1JV

10483. Re: [AT_Sprint] Order/ reserve your MTR kit now

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 16:08:25 UTC
From: Steven Weber
Topic: 10481 Message: 10483

QSL, UR #16 TNX order link http://kd1jv.qrpradio.com/MTR/MTRorder.htm
72, Steve

FB Jurg, you have quite the collection of these rigs, almost rivals mine,
hi.

Steven Weber
580 Durand Rd
Randolph, NH 03593

Hallo Steve,

I would like to order the new MTR with case.
Please give me a confirmation e-mail and I will send you
the money as usual.
Thanks in advance!

vy 73 de Jürg / HB9BAB

Jürg Allemann
Bordacherstr. 23
8108 Dällikon

Switzerland

----Ursprüngliche Nachricht----
Von: steve.kd1jv@...
Datum: 20.03.2013 06:55
An:
<AT_Sprint@yahoogroups.com>
Betreff: [AT_Sprint] Order/ reserve your MTR kit now

First, the price:

$120.00 plus
postage, shipped priority mail, flat rate.

Please email me direct to order/reserve a kit : steve.kd1jv@...

Subject : MTR order

Please include your name and address which I can cut and paste to make a
mailing label with. I
will confirm your order as soon as I can. It might take up to 24 hours, so
don't frett if you don't hear back right
away.

Once confirmed, US orders please mail check or money order with $6.00 postage ($126.00)

DX orders (Including
Canada) can use PayPal, I will send you a link when I confirm the order. Postage to Canada is $14.00 and any where else
is $24.00. International Priority mail rates took a big jump recently. Insanely expensive, but it does get you the
package in a reasonable time frame.

Thanks!!

72, Steve KD1JV

Yahoo! Groups Links

10484. MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 22:55:18 UTC
From: Steven
Topic: 10484 Message: 10484

Once again, that didn't take long. I really wish I could offer an infinate number of these, but then they would no longer be special, eh?

Thanks for all the interest and orders!!

72, Steve KD1JV

10485. Re: [AT_Sprint] MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 22:56:44 UTC
From: grant vyborny
Topic: 10484 Message: 10485

Steve - you have truly created a Cult !

72 de Grant/KT6L

On Wed, Mar 20, 2013 at 3:55 PM, Steven <steve.kd1jv@...> wrote:

> **
>
>
> Once again, that didn't take long. I really wish I could offer an infinate
> number of these, but then they would no longer be special, eh?
>
> Thanks for all the interest and orders!!
>
> 72, Steve KD1JV
>
>
>

10486. MTR Build Soldering Question for Prior Builders

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-20 23:50:42 UTC
From: wheeler2roh
Topic: 10486 Message: 10486

So, now that I have placed my MTR order, I've plugged in the soldering iron and am waiting by the mailbox :) Thanks Steve!

Something on the MTR construction I'd been wondering about.

Am planning to use soldering paste to build the bottom side (Side with MSP430) that has most of the SMT components. This would be with hot plate and embossing gun.

My question is on the SMT components on the "top" side. There are are fair number of SMT resistors and capacitors on this side, as well as two SMT IC's. Since I can't put the board on the hot plate at this point (bottom components in place), am I forced to hand solder everything on this side? I haven't done "embossing gun only" with solder paste, but maybe that works.

Was just wondering what prior builders found successful.

Wayne
W6AHH

10487. RE: [AT_Sprint] MTR Build Soldering Question for Prior Builders

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 00:00:51 UTC
From: Dale Putnam
Topic: 10486 Message: 10487

Hi Wayne, You could try that... if you just have to. However, I've had a whole lot better luck with using the solder paste on either side.. or both sides,and using four pennies to stand the board off the cup warmer ... on both sides. Careful handling.. is called for of course.. and one more note....I NEVER move the board, after the solder has flowed on the second side.. until the cup warmer has cooled on its own. I'm sure there are lots of other suggestions, but this is the best I've found after building a doz or so MTRs. Good Luck!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: wayne.wheeler@...
Date: Wed, 20 Mar 2013 23:50:42 +0000
Subject: [AT_Sprint] MTR Build Soldering Question for Prior Builders

So, now that I have placed my MTR order, I've plugged in the soldering iron and am waiting by the mailbox :) Thanks Steve!

Something on the MTR construction I'd been wondering about.

Am planning to use soldering paste to build the bottom side (Side with MSP430) that has most of the SMT components. This would be with hot plate and embossing gun.

My question is on the SMT components on the "top" side. There are are fair number of SMT resistors and capacitors on this side, as well as two SMT IC's. Since I can't put the board on the hot plate at this point (bottom components in place), am I forced to hand solder everything on this side? I haven't done "embossing gun only" with solder paste, but maybe that works.

Was just wondering what prior builders found successful.

Wayne

W6AHH

10488. Re: MTR Build Soldering Question for Prior Builders

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 00:08:22 UTC
From: wheeler2roh
Topic: 10486 Message: 10488

Thanks Dale-

I guess you don't have any problem with SMT parts on the bottom loosening up while you're heating the top of the board with hot air?

Wayne

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
> Hi Wayne, You could try that... if you just have to. However, I've had a whole lot better luck with using the solder paste on either side.. or both sides,and using four pennies to stand the board off the cup warmer ... on both sides. Careful handling.. is called for of course.. and one more note....I NEVER move the board, after the solder has flowed on the second side.. until the cup warmer has cooled on its own. I'm sure there are lots of other suggestions, but this is the best I've found after building a doz or so MTRs. Good Luck!
>
> Have a great day,
>
>
> --... ...--
> Dale - WC7S in Wy
>
>
>
> To: AT_Sprint@yahoogroups.com
> From: wayne.wheeler@...
> Date: Wed, 20 Mar 2013 23:50:42 +0000
> Subject: [AT_Sprint] MTR Build Soldering Question for Prior Builders
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> So, now that I have placed my MTR order, I've plugged in the soldering iron and am waiting by the mailbox :) Thanks Steve!
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> Something on the MTR construction I'd been wondering about.
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>
> Am planning to use soldering paste to build the bottom side (Side with MSP430) that has most of the SMT components. This would be with hot plate and embossing gun.
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>
> My question is on the SMT components on the "top" side. There are are fair number of SMT resistors and capacitors on this side, as well as two SMT IC's. Since I can't put the board on the hot plate at this point (bottom components in place), am I forced to hand solder everything on this side? I haven't done "embossing gun only" with solder paste, but maybe that works.
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>
>
> Was just wondering what prior builders found successful.
>
>
>
> Wayne
>
> W6AHH
>

10489. RE: [AT_Sprint] Re: MTR Build Soldering Question for Prior Builders

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 00:12:31 UTC
From: Dale Putnam
Topic: 10486 Message: 10489

HI Wayne, I've tried and tested with the first board... two or three times... to get the heighth (how many pennies high) so the heat from the cup warmerhas to be added to.. with SOME SLOW application heat from the embossing gun... or heat gun.... my embossing gun threw way too much air..and I melted two of them before I figured out how to slow the air flow and cool them a bit before blowing the parts across the room to never be found again... the cans of drink are NOT the only things that have Wheeiiiiinngs.....you see. IF you can feel the air blowing... from the embossing gun... you are too close. IF you don't really feel the air... but feel the heat... that's just right. Good Luck,

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: wayne.wheeler@...
Date: Thu, 21 Mar 2013 00:08:22 +0000
Subject: [AT_Sprint] Re: MTR Build Soldering Question for Prior Builders

Thanks Dale-

I guess you don't have any problem with SMT parts on the bottom loosening up while you're heating the top of the board with hot air?

Wayne

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

> Hi Wayne, You could try that... if you just have to. However, I've had a whole lot better luck with using the solder paste on either side.. or both sides,and using four pennies to stand the board off the cup warmer ... on both sides. Careful handling.. is called for of course.. and one more note....I NEVER move the board, after the solder has flowed on the second side.. until the cup warmer has cooled on its own. I'm sure there are lots of other suggestions, but this is the best I've found after building a doz or so MTRs. Good Luck!

>

> Have a great day,

>

>

> --... ...--

> Dale - WC7S in Wy

>

>

>

> To: AT_Sprint@yahoogroups.com

> From: wayne.wheeler@...

> Date: Wed, 20 Mar 2013 23:50:42 +0000

> Subject: [AT_Sprint] MTR Build Soldering Question for Prior Builders

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> So, now that I have placed my MTR order, I've plugged in the soldering iron and am waiting by the mailbox :) Thanks Steve!

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> Something on the MTR construction I'd been wondering about.

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> Am planning to use soldering paste to build the bottom side (Side with MSP430) that has most of the SMT components. This would be with hot plate and embossing gun.

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>

>

> My question is on the SMT components on the "top" side. There are are fair number of SMT resistors and capacitors on this side, as well as two SMT IC's. Since I can't put the board on the hot plate at this point (bottom components in place), am I forced to hand solder everything on this side? I haven't done "embossing gun only" with solder paste, but maybe that works.

>

>

>

> Was just wondering what prior builders found successful.

>

>

>

> Wayne

>

> W6AHH

>

10490. Re: [AT_Sprint] MTR Build Soldering Question for Prior Builders

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 00:43:06 UTC
From: mbhayden
Topic: 10486 Message: 10490

Wayne, I used a cup warmer and embossing gun on both my MTR and 3b. I didn't have any problems. my cup warmer is not hot enough to melt the solder, just preheat. The embossing gun from the top directed straight down did the trick after that. I moved the gun around in small circles watching for visual evidence of the paste changing phase working a small area about the size of a quarter at a time.

I found blowing straight down was important to keep the parts from blowing away. Surface tension kept all of mine in place. Don't tempt fate by jarring the board while you are working.

I hand soldered only the display as I recall.

Both radios worked the first time! I hope yours does also.

Mike
AK3F

On Wed, Mar 20, 2013 at 7:50 PM, wheeler2roh <wayne.wheeler@...> wrote:

> **
>
>
> So, now that I have placed my MTR order, I've plugged in the soldering
> iron and am waiting by the mailbox :) Thanks Steve!
>
> Something on the MTR construction I'd been wondering about.
>
> Am planning to use soldering paste to build the bottom side (Side with
> MSP430) that has most of the SMT components. This would be with hot plate
> and embossing gun.
>
> My question is on the SMT components on the "top" side. There are are fair
> number of SMT resistors and capacitors on this side, as well as two SMT
> IC's. Since I can't put the board on the hot plate at this point (bottom
> components in place), am I forced to hand solder everything on this side? I
> haven't done "embossing gun only" with solder paste, but maybe that works.
>
> Was just wondering what prior builders found successful.
>
> Wayne
> W6AHH
>
>
>

10491. Re: [AT_Sprint] MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 01:47:38 UTC
From: Steven Weber
Topic: 10484 Message: 10491

I think I've created a monster, hi.

Or an addiction. Do we need to start a 12 step program?

Steve
Steve - you have truly created a Cult !

72 de Grant/KT6L

10492. Re: [AT_Sprint] MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 01:56:18 UTC
From: XV4Y
Topic: 10484 Message: 10492

I've seen many "substitute products" on the market already.
They are more expensive and will often disgust you from building radio kits.
Great for breaking the addiction.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/

Le 21 mars 2013 à 08:47, Steven Weber a écrit :

> □
>
> I think I've created a monster, hi.
>
> Or an addiction. Do we need to start a 12 step program?
>
> Steve
> Steve - you have truly created a Cult !
>
> 72 de Grant/KT6L
>
>
>

10493. RE: [AT_Sprint] MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 01:56:56 UTC
From: Dale Putnam
Topic: 10484 Message: 10493

hmmm...12 steps to more radios....??? well.. just thinking out loud....

Have a great day,

--... ...--
Dale - WC7S in Wy

I think I've created a monster, hi.

Or an addiction. Do we need to start a 12 step
program?

Steve
Steve - you have truly created a Cult !

72 de Grant/KT6L

10494. Re: [AT_Sprint] MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 02:31:27 UTC
From: Johnny Matlock
Topic: 10484 Message: 10494

I might be in for that Dale "more radios"
Hi hi
Johnny AC0BQ

On Wednesday, March 20, 2013, Dale Putnam wrote:

> **
>
>
> hmmm...12 steps to more radios....???
>
> well.. just thinking out loud....
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> ----------
> I think I've created a monster, hi.
>
> Or an addiction. Do we need to start a 12 step program?
>
> Steve
>
> Steve - you have truly created a Cult !
>
> 72 de Grant/KT6L
>
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>

10495. Re: [AT_Sprint] MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 03:02:41 UTC
From: Gil WA5YKK
Topic: 10484 Message: 10495

Dale;

Here's a zinger for ya - my Dad built his version of a family house, starting in 1938, took him four years to do the whole job. To get to the upstairs area where we live, you have to climb 12 steps to the second story porch. I don't regard that as "12 steps for a program", but there is a strange part about my life, my Dad was a fishing fanatic, he would go out "to try catching a nice one for dinner", and actually stay our all night long! I forgot how many times he arrived back home, two long "stringers" of fish, grinning like a sane man.
When I first tried to set up my ham radio dipoles, I wondered why I couldn't hear anything the second day, he had "torn down those wires, he hated the whole idea, it made more sense to go fishing". My persistence is all that kept me going, then my Mom made him leave my radio antennas alone. To this day, I have the creepy feeling that "casting out a hook to bring in a big fish" is a form of mental illness!

Enjoy playing with the MTR, keep Steve busy!

73's
Gil WA5YKK

On 3/20/2013 8:56 PM, Dale Putnam wrote:
>
> hmmm...12 steps to more radios....???
>
> well.. just thinking out loud....
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> ---
> I think I've created a monster, hi.
> Or an addiction. Do we need to start a 12 step program?
> Steve
>
> Steve - you have truly created a Cult !
>
> 72 de Grant/KT6L
>
>

> _

10496. RE: [AT_Sprint] MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 03:15:31 UTC
From: Michael Wyman
Topic: 10484 Message: 10496

And I wanted an MTR too. . . .

* _ (

* (

no rest for the weary . . .

72 de W1DRY

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Wednesday, March 20, 2013 6:48 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MTR SOLD OUT! no more orders please!

□

I think I've created a monster, hi.

Or an addiction. Do we need to start a 12 step program?

Steve

Steve - you have truly created a Cult !

72 de Grant/KT6L

10497. Re: [AT_Sprint] MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 08:14:05 UTC
From: Colin Tuckley
Topic: 10484 Message: 10497

Quoting Steven Weber <steve.kd1jv@...>:

> Or an addiction. Do we need to start a 12 step program?

You can build an MTR in only 12 steps?

Colin G8TMV

10498. Re: MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 08:36:02 UTC
From: Colin
Topic: 10484 Message: 10498

More like build one in 12 days for me - I'm very particular!

Colin, M0CGH

--- In AT_Sprint@yahoogroups.com, Colin Tuckley <colin@...> wrote:
>
> Quoting Steven Weber <steve.kd1jv@...>:
>
> > Or an addiction. Do we need to start a 12 step program?
>
> You can build an MTR in only 12 steps?
>
> Colin G8TMV
>

10499. Re: [AT_Sprint] Re: MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 08:54:11 UTC
From: Colin Tuckley
Topic: 10484 Message: 10499

Quoting Colin <m0cgh@...>:

> More like build one in 12 days for me - I'm very particular!

I think it took me about a month to build my ATS-3B (incl the band modules).

Part of that is because I still work full-time, part because it was my
first smd kit and part because I was doing it for fun so if I was a
bit tired I didn't do any that day.

Colin G8TMV

10500. Re: MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 09:50:29 UTC
From: win_ker
Topic: 10484 Message: 10500

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Once again, that didn't take long. I really wish I could offer an infinate number of these, but then they would no longer be special, eh?
>
> Thanks for all the interest and orders!!
>
> 72, Steve KD1JV
>

Wow, good work Steve. They really did go quick, I've been watching on a daily basis for new messages, except for the day that counted, I was building a Weber Tribander and got too absorbed in the soldering, oh the iron-y.

Well, good luck to those happy few.

Tribander should be qrv this weekend.

73,

Ian MM0GYX

10501. Re: [AT_Sprint] MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 03:44:37 UTC
From: Jason Turning
Topic: 10484 Message: 10501

Right there with you. Darn wife's car being in the shop and having to take her to work kept me off my e-mail this morning or I would have got one. Hopefully when he's rested up from this batch he'll get motivated for another run. Well, I was eying the Tri-Bander to compliment my other QRP rig anyway.

Jason - N6WBL

On 03/20/2013 08:15 PM, Michael Wyman wrote:
>
>
> And I wanted an MTR too. . . .
>
>
>
>
>
> * _ (
>
> * (
>
>
>
> no rest for the weary . . .
>
>
>
> 72 de W1DRY

10502. Re: MTR Build Soldering Question for Prior Builders

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 08:35:01 UTC
From: Colin
Topic: 10486 Message: 10502

I will be building my MTR with a soldering iron, one component at a time.

I believe it's the best way to get a neat looking job, and I'd be more confident at the quality of the joints.

Using paste brings it's own difficulties.

My previous MTR works like a charm and has never had a problem, it even passed it's smoke test first time.

http://m0cgh.blogspot.co.uk/2012/06/kd1jv-mtr.html

I vote iron!

Just to balance up the debate :-)

Man I love my MTR and can't wait to have one for the other bands!

73, Colin, M0CGH

--- In AT_Sprint@yahoogroups.com, mbhayden <mbhayden@...> wrote:
>
> Wayne, I used a cup warmer and embossing gun on both my MTR and 3b. I
> didn't have any problems. my cup warmer is not hot enough to melt the
> solder, just preheat. The embossing gun from the top directed straight
> down did the trick after that. I moved the gun around in small circles
> watching for visual evidence of the paste changing phase working a small
> area about the size of a quarter at a time.
>
> I found blowing straight down was important to keep the parts from blowing
> away. Surface tension kept all of mine in place. Don't tempt fate by
> jarring the board while you are working.
>
> I hand soldered only the display as I recall.
>
> Both radios worked the first time! I hope yours does also.
>
> Mike
> AK3F
>
> On Wed, Mar 20, 2013 at 7:50 PM, wheeler2roh <wayne.wheeler@...> wrote:
>
> > **
> >
> >
> > So, now that I have placed my MTR order, I've plugged in the soldering
> > iron and am waiting by the mailbox :) Thanks Steve!

> >
> > Something on the MTR construction I'd been wondering about.
> >
> > Am planning to use soldering paste to build the bottom side (Side with
> > MSP430) that has most of the SMT components. This would be with hot plate
> > and embossing gun.
> >
> > My question is on the SMT components on the "top" side. There are are fair
> > number of SMT resistors and capacitors on this side, as well as two SMT
> > IC's. Since I can't put the board on the hot plate at this point (bottom
> > components in place), am I forced to hand solder everything on this side? I
> > haven't done "embossing gun only" with solder paste, but maybe that works.
> >
> > Was just wondering what prior builders found successful.
> >
> > Wayne
> > W6AHH
> >
> >
> >
>

10503. Re: MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 13:15:10 UTC
From: ve3wmb
Topic: 10484 Message: 10503

Steve :

Out of curiosity, how many kits were there in this run of MTRs?

I got #97 so I am guessing that there were at least 100?

Was it more than that ?

Michael VE3WMB

P.S. I really like the look of the new enclosure ... Ten Tec does a great job !
This is a very worthwhile addition for those of us that are metal-working
challenged ;-)

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Once again, that didn't take long. I really wish I could offer an infinate number of
these, but then they would no longer be special, eh?
>
> Thanks for all the interest and orders!!
>
> 72, Steve KD1JV
>

10504. MTR Manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 14:26:28 UTC
From: ve3wmb
Topic: 8679 Message: 10504

Steve :

Do you plan to release a new version of the MTR manual or will we use the one in FILES section of this group (dated April 2012) ?

Thanks

Michael VE3WMB

10505. Re: [AT_Sprint] Re: MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 15:31:09 UTC
From: John DeJournett
Topic: 10484 Message: 10505

I got #115, so I'm assuming there were at least 120, maybe 150.

John, KD0JXN

On Thu, Mar 21, 2013 at 8:15 AM, ve3wmb <mbabineau@...> wrote:

> **
>
>
> Steve :
>
> Out of curiosity, how many kits were there in this run of MTRs?
>
> I got #97 so I am guessing that there were at least 100?
>
> Was it more than that ?
>
> Michael VE3WMB
>
> P.S. I really like the look of the new enclosure ... Ten Tec does a great
> job !
> This is a very worthwhile addition for those of us that are metal-working
> challenged ;-)
>
> --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
> >
> > Once again, that didn't take long. I really wish I could offer an
> infinate number of these, but then they would no longer be special, eh?
> >
> > Thanks for all the interest and orders!!
> >
> > 72, Steve KD1JV
> >
>
>
>

10506. Re: [AT_Sprint] Re: MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 17:19:34 UTC
From: James Fehling
Topic: 10484 Message: 10506

I'm 143 so at least 150
On Mar 21, 2013 11:54 AM, "John DeJournett" <j.dejourn@...> wrote:

> **
>
>
> I got #115, so I'm assuming there were at least 120, maybe 150.
>
> John, KD0JXN
>
>
> On Thu, Mar 21, 2013 at 8:15 AM, ve3wmb <mbabineau@...> wrote:
>
>> **
>>
>>
>> Steve :
>>
>> Out of curiosity, how many kits were there in this run of MTRs?
>>
>> I got #97 so I am guessing that there were at least 100?
>>
>> Was it more than that ?
>>
>> Michael VE3WMB
>>
>> P.S. I really like the look of the new enclosure ... Ten Tec does a great
>> job !
>> This is a very worthwhile addition for those of us that are metal-working
>> challenged ;-)
>>
>> --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>> >
>> > Once again, that didn't take long. I really wish I could offer an
>> infinate number of these, but then they would no longer be special, eh?
>> >
>> > Thanks for all the interest and orders!!
>> >
>> > 72, Steve KD1JV
>> >
>>
>>
>
>

10507. Re: [AT_Sprint] Re: MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 18:53:04 UTC
From: Steven Weber
Topic: 10484 Message: 10507

149. #150 is mine. Serial numbers will actually start at 151, since there were also 150 in the first batch last year.

Yes, Ten-Tec did a great job and at a fairly resonable price for a small run. I sent them a cardboard model of what I had in mind for a case and they took it from there, making some significant improvements.

The last couple of parts I need showed up today, so I had best go back to work...

Steve KD1JV

>
> Out of curiosity, how many kits were there in this run of MTRs?
>
> I got #97 so I am guessing that there were at least 100?
>
> Was it more than that ?
>
> Michael VE3WMB
>
> P.S. I really like the look of the new enclosure ... Ten Tec does a great
> job !
> This is a very worthwhile addition for those of us that are metal-working
> challenged ;-)

10508. Re: [AT_Sprint] MTR Manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 19:04:53 UTC
From: Steven Weber
Topic: 8679 Message: 10508

I'll upload a new manual soon. I just need to add few pictures of the new enclosure. No doubt the eagle eyed, nit picking proof readers will find a few things I'll need to correct, (which I really appreciate) so would like to do that real soon.

The new board is almost identical to the first one, but I changed from using through hole caps in the low pass filter to using chip caps.

I'm also trying a new color coding scheme for the chip caps, which uses the resistor color code to indicate thier values instead of using random colors. Which turned out to a real time consuming pain in the butt to do until I thought of making a jig to hold the parts tape or spool.

Steve
>
> Do you plan to release a new version of the MTR manual or will we use the
> one in FILES section of this group (dated April 2012) ?
>

10509. nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 20:39:18 UTC
From: jgaffke
Topic: 8679 Message: 10509

Here's a pet nit of mine. Schematic should read "MSP430".
There's nearly 10 years worth of hams out there now
wondering why Digikey doesn't stock an MPS430.

Great kit though! Nothing else available that touches it
for what it does. At any price.

I'd still like a future version to use a 38 pin MSP430F5***,
and maybe the EA DOGM163W-A display as an option.
Or at least have an easy way to add a daughterboard
with a better processor that holds the old processor in reset.
Would be interesting to pursue that PSK31 code I have in
the files section a bit further someday when I have the time.

Maybe an option for a good low friction rotary encoder, add a
weighted knob when at home so you can fling it across the band.
Encoder to be supported directly (proportional to speed) by
MSP430 code, not just a novel way of pressing the up/down buttons.

Perhaps one band hard-wired in, the second band a plug in?

I think you could drive an IRF510 directly from the AC02
if the gate was capacitively coupled with a couple volts
of DC bias. The extra gate capacitance might drag it down
some on the upper bands though. That should mostly solve the
blown finals thing. Except of course for those hot-rodders
that choose to feed 24v to the IRF510.

Perhaps none of those are a good idea. But I would someday
like a rig for which it is easier to hack in new features.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
>No doubt the eagle eyed, nit picking proof readers
>will find a few things ...

10510. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 20:58:30 UTC
From: mdweezer
Topic: 8679 Message: 10510

Hey Jerry,

I don't want to derail this conversation from the MTR, but have you seen or heard of the Etherkit CC-1 by any chance? It's a monoband (40m or 20m right now) SMT kit and it'll ship with a nice little enclosure. It's currently being beta tested. Here are some initial impressions by one of the beta builders: http://aa7ee.wordpress.com/2013/03/21/the-etherkit-cc1-1st-beta-a-trail-friendly-qrp-cw-transceiver/

As far as hacks go, it's got an AVR programmer header on it, GPS input for future hacking (timing for WSPR or HF APRS functionality via PSK). There's also access to some interesting information like the VFO frequency, keyer info, RIT, memories etc etc. So you could easily build a little display for it if you wanted.

All of the documentation, firmware, and schematics are on Github for easy viewing/hacking.

https://github.com/etherkit/CC1

And here's a blog post from the builder of the kit, Jason, NT7S with specs on the kit and information about the breakout headers on it and such. He has a few other posts about it too, one recently of his first CC-1 to CC-1 QSO with AA7EE.

http://www.nt7s.com/blog/2013/01/first-rf/

Anyway, MTR #79 from the new batch here. Anxious to get it and begin the build. I'll likely be building for 40m/30m as I will likely be getting the CC-1 as well and will build it for 40m, or some other combination so I can have the 3 bands covered by the two very trail friendly rigs.

73!
-Matt, W2MDW

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Here's a pet nit of mine. Schematic should read "MSP430".
> There's nearly 10 years worth of hams out there now
> wondering why Digikey doesn't stock an MPS430.
>
> Great kit though! Nothing else available that touches it
> for what it does. At any price.
>
> I'd still like a future version to use a 38 pin MSP430F5***,
> and maybe the EA DOGM163W-A display as an option.
> Or at least have an easy way to add a daughterboard
> with a better processor that holds the old processor in reset.
> Would be interesting to pursue that PSK31 code I have in
> the files section a bit further someday when I have the time.
>

> Maybe an option for a good low friction rotary encoder, add a
> weighted knob when at home so you can fling it across the band.
> Encoder to be supported directly (proportional to speed) by
> MSP430 code, not just a novel way of pressing the up/down buttons.
>
> Perhaps one band hard-wired in, the second band a plug in?
>
> I think you could drive an IRF510 directly from the AC02
> if the gate was capacitively coupled with a couple volts
> of DC bias. The extra gate capacitance might drag it down
> some on the upper bands though. That should mostly solve the
> blown finals thing. Except of course for those hot-rodders
> that choose to feed 24v to the IRF510.
>
> Perhaps none of those are a good idea. But I would someday
> like a rig for which it is easier to hack in new features.
>
> Jerry, KE7ER
>
>
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
> >No doubt the eagle eyed, nit picking proof readers
> >will find a few things ...
>

10511. New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 21:16:58 UTC
From: AT_Sprint@yahoogroups.com
Topic: 154 Message: 10511

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the AT_Sprint
group.

File : /MTR /MTR_2.pdf
Uploaded by : kd1jv <steve.kd1jv@...>
Description : Second batch MTR manual (3/21/13)

You can access this file at the URL:
http://groups.yahoo.com/group/AT_Sprint/files/MTR%20/MTR_2.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

kd1jv <steve.kd1jv@...>
```

10512. MTRs gone

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 21:30:50 UTC
From: John
Topic: 10512 Message: 10512

wow, I missed looking at the site one day, and they are all gone. Oh well, I know this is a boatload of work for Steve. Just venting - I was planning on buying one for months. Can't help feeling disapointed, just human nature. I guess this is kind of a once a year thing?

10513. Re: [AT_Sprint] nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 22:19:27 UTC
From: Steven Weber
Topic: 8679 Message: 10513

Well, no matter what features a rig has, someone will want it to do more.

I will never be convinced rotary tuning is more desirable then push button tuning on a rig this small. That said, I was sorely tempted to see if I could add encoder support to this run as there is just enough space to mount an encoder off the side of the case. Maybe later if I find time and ambition.

If I do another version with LCD readout I'll use something other then the EA DOG displays. Thier just a bit too fragile and several builders broke thiers during assembly.

The BS170 finals have proven to be very reliable. Some care must still be taken, but thier much less fragile then the 2N7000's originally used. The IRF510 would not be a very good replacement.

> Here's a pet nit of mine. Schematic should read "MSP430".
>
Some day I'll remember to fix that. At least its right on the parts list - I think.

> Perhaps none of those are a good idea. But I would someday
> like a rig for which it is easier to hack in new features.

This is possible, but not easy on a board this small.

72, Steve KD1JV

10514. Re: Order/ reserve your MTR kit now

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-21 22:26:48 UTC
From: andrew.cross
Topic: 10481 Message: 10514

Hi All

Unfortunately I missed out this time around - too slow ;(

I already own one of each of the models of these wonderful radios as I am keen on collecting them, and although I am happy knowing that perhaps someone who has been waiting to get hold of their first one might have got one, I would still dearly like to buy this latest model with the new case. My preference would be to buy an unbuilt one, however if thats not possible, I would consider one that is built, tuned and working.

Congratulations Steve on putting out what I am sure is yet another fine radio kit! Enjoy your wander on the AT.

Holding thumbs like mad,

Andrew

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> First, the price:
>
> $120.00 plus postage, shipped priority mail, flat rate.
>
> Please email me direct to order/reserve a kit : steve.kd1jv@...
>
> Subject : MTR order
>
> Please include your name and address which I can cut and paste to make a mailing label with. I will confirm your order as soon as I can. It might take up to 24 hours, so don't frett if you don't hear back right away.
>
> Once confirmed, US orders please mail check or money order with $6.00 postage ($126.00)
>
> DX orders (Including Canada) can use PayPal, I will send you a link when I confirm the order. Postage to Canada is $14.00 and any where else is $24.00. International Priority mail rates took a big jump recently. Insanely expensive, but it does get you the package in a reasonable time frame.
>
> Thanks!!
>
> 72, Steve KD1JV
>

10515. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 00:32:38 UTC
From: Steven Weber
Topic: 8679 Message: 10515

Interesting, perhaps some competition at last? Interesting approch he took in the design.

KD1JV

> I don't want to derail this conversation from the MTR, but have you seen
> or heard of the Etherkit CC-1 by any chance? It's a monoband (40m or 20m
> right now) SMT kit and it'll ship with a nice little enclosure. It's
> currently being beta tested. Here are some initial impressions by one of
> the beta builders:
> http://aa7ee.wordpress.com/2013/03/21/the-etherkit-cc1-1st-beta-a-trail-friendly-qrp-cw-transceiver/
>

10516. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 01:21:28 UTC
From: jgaffke
Topic: 8679 Message: 10516

Overall design borrows from the ATS rigs, but tries not to copy.
Fair enough, hams have been borrowing like that since about 1910.
The board mounted connectors and extra headers are nice.
I've never used an AVR, but suspect I'd prefer a 16 bit 25 MHz MSP430.
Single band, no AGC, the balanced output filter means a bit less
power out. I wonder how well it does at under 12v. Lots of coils
to wind. Still in beta, not shipping anything yet, might be a few
bugs. Worth considering for those that missed out on the MTR.
Anybody notice anything that is an improvement over the ATS line?

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
> Interesting, perhaps some competition at last? ...

10517. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 01:52:13 UTC
From: jgaffke
Topic: 8679 Message: 10517

Didn't realize it was an EA DOG on the ATS4. Maybe solder it
directly to the main board, would that be stronger? If it fails,
pluck the pins out one by one? I've only seen datasheets.

The rotary encoder and more power are things that seem to
excite considerable interest within the group at times.

Yes, the rotary encoder is probably best left at home.

I'd try slipping in an IRF510 at 24v before building a linear,
perhaps with a buck-boost switcher that's only on for transmit
so you can efficiently choose your output power level.
Would need to beef up the output filter components for the
higher voltages and currents, but not change the values.

And none of that adds to what the MTR is trying to be,
a compact multiband $100 kit that performs really well.
But would be cool if the hooks were there to optionally add
such capability. Cuz it's fun, if for no other reason.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
> Well, no matter what features a rig has, someone will want it to do more.

10518. RE: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 05:10:20 UTC
From: Mike Olbrisch
Topic: 8679 Message: 10518

Only one - they may be more available. Eventually..... <grin>.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of jgaffke
Sent: Thursday, March 21, 2013 19:21
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: nits and hacks

Worth considering for those that missed out on the MTR.
Anybody notice anything that is an improvement over the ATS line?

Jerry, KE7ER

Yahoo! Groups Links

10519. Re: [AT_Sprint] Need some input - ? OK?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 05:21:28 UTC
From: Gil WA5YKK
Topic: 8679 Message: 10519

Pardon my wind, and a slight change in the thread, but I got a note from "Google Chrome" to try it out. I've had the desk icon for a long time, yet never used it, did find out that it's another "browser", just wondering if anyone has had good experience with it?

Kindly reply to my email address, take the load off the main reflector, thanks.

73's
Gil WA5YKK

10520. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 14:54:49 UTC
From: jgaffke
Topic: 8679 Message: 10520

Hmm, no keyclick filter.
--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" wrote:
> Only one - they may be more available. Eventually..... <grin>.

10521. Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 15:44:12 UTC
From: TJ Campie
Topic: 10521 Message: 10521

So with the new cases, Steve said there'd be room to put a battery internal to the unit. How much room? Obviously room enough for a 9v but there's some pretty small 3S LiPo batteries that run at 11.1v at about 1300mAh that would be perfect.

So Steve - how much room would you say there is for a battery?

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

10522. Re: MTR Build Soldering Question for Prior Builders - hot air SMD reflow station

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 00:22:54 UTC
From: brianpepperdine
Topic: 10486 Message: 10522

Well, for better or worse...I got a hot air SMD Reflow station. The MTR will probably be the first real thing I build with it.
However, I have a couple small SMD projects I intend to start with.. one of which is the Hendricks QRP Kits Dummy load.

Anyhow, some weeks back George the 'build it' guy on the Twit TV HamNation videocasts (hosted by Bob Heil) had shown the hot air SMD reflow station he had recently obtained. It was about 69$ on special, and he used it on the last stages of the Soft Rock kit he was doing.

Anyhow, it came to pass that the same station (under a number of names) came up on eBay from a local supplier local to me in Canada, so I got one. I was concerned about the velocity of the embossing gun air, though LOTS of fellows have used them, figuring at the cost I would indulge in a reflow station with adjustable temp and air flow.

I will use that, probably with the griddle I got in WalMart 2 years ago after LobsterCon New England QRP gathering in Maine, on the suggestion of Steve as a pre-warmer. And of course I will be able to flip the board over, put it raised up on pennies and then reflow the components on the other side, using solder paste.

Dunno, the griddle pre-heating might be redundant with the reflow station, but I can play around and see. On-line videos I believe do show pre-heating being done in conjunction with hot air reflow and solder paste.

These eyes will never see (ha) me do SMD with a soldering iron.

72
Brien
VE3VAW

--- In AT_Sprint@yahoogroups.com, "wheeler2roh" <wayne.wheeler@...> wrote:
>
>
> Thanks Dale-
>
> I guess you don't have any problem with SMT parts on the bottom loosening up while you're heating the top of the board with hot air?
>
> Wayne
>
>
> --- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@> wrote:
> >
> > Hi Wayne, You could try that... if you just have to. However, I've had a whole lot better luck with using the solder paste on either side.. or both sides,and using four

pennies to stand the board off the cup warmer ... on both sides. Careful handling.. is called for of course.. and one more note....I NEVER move the board, after the solder has flowed on the second side.. until the cup warmer has cooled on its own. I'm sure there are lots of other suggestions, but this is the best I've found after building a doz or so MTRs. Good Luck!
> >
> > Have a great day,
> >
> >
> > --... ...--
> > Dale - WC7S in Wy
> >
> >
> >
> > To: AT_Sprint@yahoogroups.com
> > From: wayne.wheeler@
> > Date: Wed, 20 Mar 2013 23:50:42 +0000
> > Subject: [AT_Sprint] MTR Build Soldering Question for Prior Builders
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> > So, now that I have placed my MTR order, I've plugged in the soldering iron and am waiting by the mailbox :) Thanks Steve!
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> >
> > Something on the MTR construction I'd been wondering about.
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> >
> > Am planning to use soldering paste to build the bottom side (Side with MSP430) that has most of the SMT components. This would be with hot plate and embossing gun.
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> >
> > My question is on the SMT components on the "top" side. There are are fair number of SMT resistors and capacitors on this side, as well as two SMT IC's. Since I can't put the board on the hot plate at this point (bottom components in place), am I forced to hand solder everything on this side? I haven't done "embossing gun only" with solder paste, but maybe that works.
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> >
> > Was just wondering what prior builders found successful.
> >
> >
> >
> > Wayne
> >
> > W6AHH
> >
>

10523. MTR Digi modes interface

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 04:47:30 UTC
From: reissumies70
Topic: 10523 Message: 10523

Is it specified anywhere how the digimodes interface works, protocol, levels etc.? Or do I need to attempt reverse engineering?

Apologies if this has been discussed here before. I tried to look for it but didn't find the answer.

Cheers,
Riku ZL1KLP

10524. ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 11:13:01 UTC
From: andrew.cheetham
Topic: 5421 Message: 10524

Steve,
I have only just joined the group so you may have been asked several times. Do you have any plans to produce any more of the ATS4 type kits as I prefer more bands than the two bands in the MTR.
73 Andrew G4AFI

10525. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 15:54:47 UTC
From: Marc Tinkler G0AZS
Topic: 10521 Message: 10525

Interesting idea indeed...although I wonder if the initial 12.6 volts for a fully charged 3S LiPo might be a tad on the high side for the MTR without a diode or two to drop it? I thought 12V was the absolute maximum and better to be between there and 9V?

73 Marc G0AZS

On 22 March 2013 15:44, TJ Campie <tom.campie@...> wrote:

> **
>
>
> So with the new cases, Steve said there'd be room to put a battery
> internal to the unit. How much room? Obviously room enough for a 9v but
> there's some pretty small 3S LiPo batteries that run at 11.1v at about
> 1300mAh that would be perfect.
>
> So Steve - how much room would you say there is for a battery?
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
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10526. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 15:57:54 UTC
From: TJ Campie
Topic: 10521 Message: 10526

I hadn't really thought about that, but I'm sure you could bleed it off a
bit before use.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Mar 22, 2013 at 10:54 AM, Marc Tinkler G0AZS
<marc.g0azs@...>wrote:

> **
>
>
> Interesting idea indeed...although I wonder if the initial 12.6 volts for
> a fully charged 3S LiPo might be a tad on the high side for the MTR
> without a diode or two to drop it? I thought 12V was the absolute maximum
> and better to be between there and 9V?
>
> 73 Marc G0AZS
>
>
> On 22 March 2013 15:44, TJ Campie <tom.campie@...> wrote:
>
>> **
>>
>>
>> So with the new cases, Steve said there'd be room to put a battery
>> internal to the unit. How much room? Obviously room enough for a 9v but
>> there's some pretty small 3S LiPo batteries that run at 11.1v at about
>> 1300mAh that would be perfect.
>>
>> So Steve - how much room would you say there is for a battery?
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>> 73, W0EA
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>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
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>> Elecraft KX3 SN 288
>> *Because QRO is too easy*
>>
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>

10527. RE: [AT_Sprint] Re: MTR Build Soldering Question for Prior Builders - hot air SMD reflow station

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 16:04:04 UTC
From: Dale Putnam
Topic: 10486 Message: 10527

Hi Brian, gentle and slow... nothing real fast... that's the key... to preheat and airflow. These little critters are skittish.. and fly at the first hint of any movement... so plan ahead... and go slow.The Hendricks dummy load is a great practice piece.. and one more hint.. if you use tweezers.. to pick up parts... Put a large sheet of plastic under your work surface, and under your grounded mat, with the edges tipped up, to catch the flyingcritters as they try to escape. This will work for the first kit.. practice or otherwise.. until your fingers learn very light touch..Good LUck!!!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: brianpepperdine@...
Date: Fri, 22 Mar 2013 00:22:54 +0000
Subject: [AT_Sprint] Re: MTR Build Soldering Question for Prior Builders - hot air SMD reflow station

Well, for better or worse...I got a hot air SMD Reflow station. The MTR will probably be the first real thing I build with it.

However, I have a couple small SMD projects I intend to start with.. one of which is the Hendricks QRP Kits Dummy load.

Anyhow, some weeks back George the 'build it' guy on the Twit TV HamNation videocasts (hosted by Bob Heil) had shown the hot air SMD reflow station he had recently obtained. It was about 69$ on special, and he used it on the last stages of the Soft Rock kit he was doing.

Anyhow, it came to pass that the same station (under a number of names) came up on eBay from a local supplier local to me in Canada, so I got one. I was concerned about the velocity of the embossing gun air, though LOTS of fellows have used them, figuring at the cost I would indulge in a reflow station with adjustable temp and air flow.

I will use that, probably with the griddle I got in WalMart 2 years ago after LobsterCon New England QRP gathering in Maine, on the suggestion of Steve as a pre-warmer. And of course I will be able to flip the board over, put it raised up on pennies and then reflow the components on the other side, using solder paste.

Dunno, the griddle pre-heating might be redundant with the reflow station, but I can play around and see. On-line videos I believe do show pre-heating being done in conjunction with hot air reflow and solder paste.

These eyes will never see (ha) me do SMD with a soldering iron.

72

Brien

VE3VAW

--- In AT_Sprint@yahoogroups.com, "wheeler2roh" <wayne.wheeler@...> wrote:

>

>

> Thanks Dale-

>

> I guess you don't have any problem with SMT parts on the bottom loosening up while you're heating the top of the board with hot air?

>

> Wayne

>

>

> --- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@> wrote:

> >

> > Hi Wayne, You could try that... if you just have to. However, I've had a whole lot better luck with using the solder paste on either side.. or both sides,and using four pennies to stand the board off the cup warmer ... on both sides. Careful handling.. is called for of course.. and one more note....I NEVER move the board, after the solder has flowed on the second side.. until the cup warmer has cooled on its own. I'm sure there are lots of other suggestions, but this is the best I've found after building a doz or so MTRs. Good Luck!

> >

> > Have a great day,

> >

> >

> > --... ...--

> > Dale - WC7S in Wy

> >

> >

> >

> > To: AT_Sprint@yahoogroups.com

> > From: wayne.wheeler@

> > Date: Wed, 20 Mar 2013 23:50:42 +0000

> > Subject: [AT_Sprint] MTR Build Soldering Question for Prior Builders

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> > So, now that I have placed my MTR order, I've plugged in the soldering iron and am waiting by the mailbox :) Thanks Steve!

> >

> >

> >

> > Something on the MTR construction I'd been wondering about.

> >

> >

> >

> > Am planning to use soldering paste to build the bottom side (Side with MSP430) that has most of the SMT components. This would be with hot plate and embossing gun.

> >

> >

> >

> > My question is on the SMT components on the "top" side. There are are fair number of SMT resistors and capacitors on this side, as well as two SMT IC's. Since I can't put the board on the hot plate at this point (bottom components in place), am I forced to hand solder everything on this side? I haven't done "embossing gun only" with solder paste, but maybe that works.

> >

> >

> >

> > Was just wondering what prior builders found successful.

> >

> >

> >

> > Wayne

> >

> > W6AHH

> >

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10528. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 16:10:38 UTC
From: Lee Hiers
Topic: 10521 Message: 10528

I think you can program most of the smart chargers used for LiPos to cut off at a certain voltage, say 11.9 volts. It's something I'd thought about.

I was also wondering about using a 2S battery - that would be 8.4 volts at full charge, dropping to 6 to 6.6 volts (depending on your philosophies about how far you can draw down a LiPo!). I've meant to look up the minimum voltage for the MTR but haven't yet - it's in that same neighborhood, isn't it?

I also didn't realize there was room in the MTR case for even a 9 volt battery...that's pretty cool, especially if one of the primary lithium batteries will fit.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

On Fri, Mar 22, 2013 at 11:57 AM, TJ Campie <tom.campie@...> wrote:

> **
>
>
> I hadn't really thought about that, but I'm sure you could bleed it off a
> bit before use.
>

10529. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 16:12:54 UTC
From: TJ Campie
Topic: 10521 Message: 10529

On my first run MTR, at 9v the power out is only 2.5w. With a fully charged 8AA cell pack, I can get a solid 4 or 5w. For portable ops, this is what I'm shooting for which is why I'm looking into it this way. I can always carry that 8 cell pack but I figured something internal would be great. I want to make a super minimal MTR portable kit.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Mar 22, 2013 at 11:10 AM, Lee Hiers <lee.hiers@...> wrote:

> **
>
>
> I think you can program most of the smart chargers used for LiPos to cut
> off at a certain voltage, say 11.9 volts. It's something I'd thought
> about.
>
> I was also wondering about using a 2S battery - that would be 8.4 volts at
> full charge, dropping to 6 to 6.6 volts (depending on your philosophies
> about how far you can draw down a LiPo!). I've meant to look up the
> minimum voltage for the MTR but haven't yet - it's in that same
> neighborhood, isn't it?
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> I also didn't realize there was room in the MTR case for even a 9 volt
> battery...that's pretty cool, especially if one of the primary lithium
> batteries will fit.
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to *
> http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
>
>
>
> On Fri, Mar 22, 2013 at 11:57 AM, TJ Campie <tom.campie@...> wrote:
>
>> **

>>
>>
>> I hadn't really thought about that, but I'm sure you could bleed it off a
>> bit before use.
>>
>
>
>

10530. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 16:24:21 UTC
From: cloud runner
Topic: 10521 Message: 10530

I use a tiny SP switch and diodes to drop the voltage tuning, and intially, but you can program your charger to stop at any voltage you want.

fred - kt5x

MTR # 94, and # 246

----- Original Message -----
From: TJ Campie
To: AT Sprint
Sent: Friday, March 22, 2013 9:57 AM
Subject: Re: [AT_Sprint] Batteries for the MTR

I hadn't really thought about that, but I'm sure you could bleed it off a bit before use.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Mar 22, 2013 at 10:54 AM, Marc Tinkler G0AZS <marc.g0azs@...> wrote:

Interesting idea indeed...although I wonder if the initial 12.6 volts for a fully charged 3S LiPo might be a tad on the high side for the MTR without a diode or two to drop it? I thought 12V was the absolute maximum and better to be between there and 9V?

73 Marc G0AZS

On 22 March 2013 15:44, TJ Campie <tom.campie@...> wrote:

So with the new cases, Steve said there'd be room to put a battery internal to the unit. How much room? Obviously room enough for a 9v but there's some pretty small 3S LiPo batteries that run at 11.1v at about 1300mAh that would be perfect.

So Steve - how much room would you say there is for a battery?

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

10531. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 16:25:57 UTC
From: TJ Campie
Topic: 10521 Message: 10531

oh by the way, if any of you in the new bunch don't want that fancy case, I
may be interested since it sounds like it'll be a couple months before
Steve has any for the first run people!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Mar 22, 2013 at 11:24 AM, cloud runner <just.one.hill@...>wrote:

> **
>
>
> **
> I use a tiny SP switch and diodes to drop the voltage tuning, and
> intially, but you can program your charger to stop at any voltage you want.
>
> fred - kt5x
>
> MTR # 94, and # 246
>
>
> ----- Original Message -----
> *From:* TJ Campie <tom.campie@...>
> *To:* AT Sprint <AT_Sprint@yahoogroups.com>
> *Sent:* Friday, March 22, 2013 9:57 AM
> *Subject:* Re: [AT_Sprint] Batteries for the MTR
>
>
>
> I hadn't really thought about that, but I'm sure you could bleed it off a
> bit before use.
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>

> On Fri, Mar 22, 2013 at 10:54 AM, Marc Tinkler G0AZS <marc.g0azs@...
> > wrote:
>
>> **
>>
>>
>> Interesting idea indeed...although I wonder if the initial 12.6 volts for
>> a fully charged 3S LiPo might be a tad on the high side for the MTR
>> without a diode or two to drop it? I thought 12V was the absolute maximum
>> and better to be between there and 9V?
>>
>> 73 Marc G0AZS
>>
>>
>> On 22 March 2013 15:44, TJ Campie <tom.campie@...> wrote:
>>
>>> **
>>>
>>>
>>> So with the new cases, Steve said there'd be room to put a battery
>>> internal to the unit. How much room? Obviously room enough for a 9v but
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>>>
>>> So Steve - how much room would you say there is for a battery?
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>>> 73, W0EA
>>> TJ
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>>> Elecraft KX3 SN 288
>>> *Because QRO is too easy*
>>>
>>>
>>
>
>

10532. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 16:48:48 UTC
From: WA0ITP
Topic: 10521 Message: 10532

A 3S LIPO is a fine idea, and I don't think the fully charged voltage is a problem. A bigger issue is not using a 3-6 db pad between the rig and the tuner/ant when adjusting for low SWR. My much used and abused ATS3 finals can testify to that.

The charging connector could be brought out of the case somewhere (cut/file a hole in a corner perhaps) creating a really convenient power supply. A balancing charge must be used otherwise excess heat may be generated in the battery, something to be avoided. The RC guys know all about charging these, so check out the charges they use. I havent had personal experience with LiPOs burning up, but know some guys that have. The reason they flamed up was that a non balancing high current charger was being used. Using the proper charger makes a fire a non issue. Here's one I use and can recommend.
http://www.rcgroups.com/forums/showthread.php?t=511444

My normal /P batt is a 4AH LiFePO4 and lasts for a looong time. One way to get around the high initial voltage is to use a buck boost regulator between the battery and rig. That has worked well for me for a coupla years. The regulator is rated at 1A, is RF quiet, and cheap on Ebay.

Hope this helps with your LiPO decision, I like them much better than SLA's for portable ops.

I love this radio stuff !
72 WAØITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: TJ Campie
To: AT Sprint
Sent: Friday, March 22, 2013 10:44 AM
Subject: [AT_Sprint] Batteries for the MTR

So with the new cases, Steve said there'd be room to put a battery internal to the unit. How much room? Obviously room enough for a 9v but there's some pretty small 3S LiPo batteries that run at 11.1v at about 1300mAh that would be perfect.

So Steve - how much room would you say there is for a battery?

73, W0EA
TJ

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NAQCC #3768 | Flying Pigs QRP #2254
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Because QRO is too easy

10533. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 16:50:59 UTC
From: Colin
Topic: 10521 Message: 10533

I run my MTR mainly from a 2S lipo, 1000mAh.

The battery easily manages a few SOTA activation before needing charging. I have run my MTR from a 3S lipo that had been run down to under 12v, the rig was fine.

I generally carry 8 off AA NiMHs with me as a back up. The voltage of the charged AAs is just a shade over 11v and my MTR puts out well on to the way to 5w on 40m at this voltage.

I find that the 3ish watts from the 2S lipo is more than enough, I've worked across the Atlantic many times with this set up.

73, Colin, M0CGH

--- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
>
> So with the new cases, Steve aid there'd be room to put a battery inteal
> to the unit. How much room? Obviously room enough for a 9v but there's
> some pretty small 3S LiPo batteries that run at 11.1v at ab out 1300mAh that
> would be perfect..
>
> So Steve - how much room would you say there is for a battery?
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> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>

10534. Internal Tuner In MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:06:16 UTC
From: wheeler2roh
Topic: 10534 Message: 10534

Looking at the pictures in the new MTR instructions (Steve is busy kiting, but what else do I have to do until my MTR comes? hi), instead of an internal battery I was looking at an internal tuner (or at least storing one inside). I think I can make a spare KD1JV Altoids tuner kit fit. If I build for 40/20M, I would only need to cover that range.

Wonder if there would be RF bleed through issues for an internal tuner sitting on the back of the MTR?

Wayne
W6AHH

P.S. Regarding a VFO knob for the MTR, I have one of Petr's Rotary Encoder kits

http://diy4fun.blogspot.com/2010/02/rotary-encoder-for-ats-assembly.html

I plan to try to adapt to my MTR. This would be in a separate enclosure with Digital readout for QTH use. Encoder could fit inside MTR (?), but I don't want a knob sticking out of mine.

10535. Re: [AT_Sprint] MTR Digi modes interface

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:18:01 UTC
From: Steven Weber
Topic: 10523 Message: 10535

> Is it specified anywhere how the digimodes interface works, protocol,
> levels etc.? Or do I need to attempt reverse engineering?
>

The interface between a sound card and the rig is simply a resistor and isolating cap (which might not actually be required). This is shown at the end of the MTR instruction manual. Along with operating instructions.

However, the Pocketdigi program is the only program which will talk to the MTR or other ATS rig starting with the 3B. This is because since there is no "audio in" like on a SSB rig, the program must directly talk the processor and tell it how to control the DDS chip and key the rig. Since this feature is unique to the ATS rigs, no other digimode program has bothered to incorperate it.

I'm not sure if Voltech ever published the interface spec's for the audio UART used to communicate to the rig. probably not, since it would be unlikely anyone else would be interested in writting a similer program. It is open source however, so if you want to play with it one could. The program can be found on sourceforge.net and I think somewhere in the group files section.

Steve KD1JV

10536. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:23:14 UTC
From: Steven Weber
Topic: 10521 Message: 10536

You'd want to be a bit more careful of the load SWR, but other wise shouldn't be a problem.
KD1JV
Interesting idea indeed...although I wonder if the initial 12.6 volts for a fully charged 3S LiPo might be a tad on the high side for the MTR without a diode or two to drop it? I thought 12V was the absolute maximum and better to be between there and 9V?

73 Marc G0AZS

10537. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:30:12 UTC
From: Steven Weber
Topic: 10521 Message: 10537

The rig will work fine down to 5.5V. Below that and the 5V regulator starts to drop out and when you hit 4.5V the '612 mixers start to not work so good. I haven't measured the power out at 5.5V recently, but it's close to 1W, a perfectly useable power level.
Let's see that CC-1 rig do that (:-)

KD1JV

I was also wondering about using a 2S battery - that would be 8.4 volts at full charge, dropping to 6 to 6.6 volts (depending on your philosophies about how far you can draw down a LiPo!). I've meant to look up the minimum voltage for the MTR but haven't yet - it's in that same neighborhood, isn't it?

I also didn't realize there was room in the MTR case for even a 9 volt battery...that's pretty cool, especially if one of the primary lithium batteries will fit.

10538. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:32:03 UTC
From: TJ Campie
Topic: 10521 Message: 10538

So we could potentially run slightly above 12v without blowing anything up?

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Mar 22, 2013 at 3:23 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> **
> You'd want to be a bit more careful of the load SWR, but other wise
> shouldn't be a problem.
> KD1JV
>
> Interesting idea indeed...although I wonder if the initial 12.6 volts for
> a fully charged 3S LiPo might be a tad on the high side for the MTR
> without a diode or two to drop it? I thought 12V was the absolute maximum
> and better to be between there and 9V?
>
> 73 Marc G0AZS
>
>
>

10539. Re: [AT_Sprint] ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:36:55 UTC
From: Steven Weber
Topic: 5421 Message: 10539

> Steve,
> I have only just joined the group so you may have been asked several
> times. Do you have any plans to produce any more of the ATS4 type kits as
> I prefer more bands than the two bands in the MTR.
> 73 Andrew G4AFI

Not in the for-see-able future, but one never knows...

Steve

10540. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:43:55 UTC
From: dl2arl
Topic: 10521 Message: 10540

There certainly is room enough for some batteries in the MTR case (LiPo or 9V), but no power switch. Well, thinking small makes me kinda smart, you know ;-).. Don't know exactly how the power connector will look like with the MTR, but with other small rigs with little room for a power switch, I use the following cheap and unelegant trick:

most coaxial power connectors have some kind of built-in switch, allowing to bypass the internal batteries when plugging an external power supply. With a "blind" coaxial plug having its rear side cut off, so that it has a very low profile, one can interrupt the rig without having a switch.

Sure the "blind" plug can fall off during transport and drain your batteries in your trousers pocket. If you are like me, you will most liklely loose the "blind" plug while operating and have no way of switching off the rig after party. That's why McGuyver has his Swiss-Knife for: open the case and cut the red wire...HI.

Another posibility would be the stereo jack connectors for headphones or/and key. They also have some kind of internal switch, mostly for bypassing the internal loudspeaker (when existent). But not all jack connectors have the switch lines separated from the audio path, needing some kind of extra AC-DC separation and maybe an additional MosFet (like ATS4).

Have fun es best 73!, Razvan DL2ARL

10541. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:47:18 UTC
From: Steven Weber
Topic: 8679 Message: 10541

> Hmm, no keyclick filter.

Yea, that's not good. I also don't know why he only gets a little over 2W with 12V supply. The FDS86106, while having a bit more gate capacitance then three BS170's, it looks like it should switch fast enough.

Steve KD1JV

10542. RE: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:48:52 UTC
From: Mike Olbrisch
Topic: 10521 Message: 10542

Steve, does that go for the ATS-4B also? I have several 1S Li-Po batteries of various sizes.

Mike - KD9KC.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Friday, March 22, 2013 14:23
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Batteries for the MTR

You'd want to be a bit more careful of the load SWR, but other wise shouldn't be a problem.
KD1JV
Interesting idea indeed...although I wonder if the initial 12.6 volts for a fully charged 3S LiPo might be a tad on the high side for the MTR without a diode or two to drop it? I thought 12V was the absolute maximum and better to be between there and 9V?

73 Marc G0AZS

10543. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:49:40 UTC
From: Steven Weber
Topic: 10521 Message: 10543

So Steve - how much room would you say there is for a battery?

Oh, just enough for a 9V battery...

10544. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:53:24 UTC
From: bill_w4zv
Topic: 10521 Message: 10544

I just got back from a SOTA activation and ran a fully charged LiPO 3S (12.6V) into my original ATS-3 with 2N7000s. No problem if you use a tuned antenna or use a Tayloe bridge tuner in Tune mode when adjusting for 1:1 SWR. I don't have an MTR to inspect but I'd be surprised if it would hold my 1100 mAh LiPO (~2 cu in...1X1X2). I also have a 270 mAh which might fit.

73, Bill W4ZV

--- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
>
> So we could potentially run slightly above 12v without blowing anything up?
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Fri, Mar 22, 2013 at 3:23 PM, Steven Weber <steve.kd1jv@...> wrote:
>
> > **
> >
> >
> > **
> > You'd want to be a bit more careful of the load SWR, but other wise
> > shouldn't be a problem.
> > KD1JV
> >
> > Interesting idea indeed...although I wonder if the initial 12.6 volts for
> > a fully charged 3S LiPo might be a tad on the high side for the MTR
> > without a diode or two to drop it? I thought 12V was the absolute maximum
> > and better to be between there and 9V?
> >
> > 73 Marc G0AZS
> >
> >
> >
>

10545. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 20:59:40 UTC
From: mbhayden
Topic: 10521 Message: 10545

I stuffed a 9.6 v 1500 mAh LiFePO4 in a separate Altoids tin and use it for my MTR with good success. And It seems to last forever.

Mike AK3F

10546. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 21:14:12 UTC
From: Etienne Scott
Topic: 10521 Message: 10546

TJ et al -

Fred-KT5X earlier noted that he was doing activations at about 5 mAh per QSO with his AT-S. And Steve-WGoAT has used a 9V battery with his MTR for three activations. So thousands or perhaps even hundreds of mAh capacity should run this MTR radio for a (very), good, long, while.

Etienne-K7ATN

--- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
>
> So with the new cases, Steve said there'd be room to put a battery internal
> to the unit. How much room? Obviously room enough for a 9v but there's
> some pretty small 3S LiPo batteries that run at 11.1v at about 1300mAh that
> would be perfect.
>
> So Steve - how much room would you say there is for a battery?
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>

10547. Re: Changing Finals and Driver in ATS-3A

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 21:18:08 UTC
From: dl2arl
Topic: 10342 Message: 10547

> Then I took the board out of the altoids box, and removed the three
> 2N7000 final mosfets. These were the original finals. I replaced them
> with BS170 mosfets made by ON Semiconductor. They now have the flat
> sides up instead of down.

If I would happen to hold the transistors in my hand needing to replace them, I would take the time and measure them so that they have their R-DS-on closely matched. I use a test rig consisting of a scope and a rectangular pulse generator set to a very low duty cycle to avoid heating (abt 2Hz repetition and 1-10ms on), but g4zfq shows us how to do much easyer:

https://sites.google.com/site/g4zfqradio/matching-bs170-for-softrock

I do not know if the original transistors come matched. Usually if they are of the same batch, the odds are good that they are alike, but as I said, if I would have them in the hand... Bought some 30..50 pcs of BS170 and sorted them to heaps of 3 depending on their R-on value. Most came within 10%, little were below 5% and only a couple came as close as 2%.

Another question would be if it would not make sense to put a small resistor (1..5 Ohm) in the drain of each transistor to help distribute the current more evenly.

I looked with the scope at transistors passing away during pulse when connected in parallel. They do not die during the ON phase, like they would if over-heating, but during the switch-on transient. It's like with horses: the hardworking get the most beating. If paired and having some kind of current distribution, they might carry the load easyer.

Wonder about your oppinion. 73, Razvan DL2ARL

10548. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 21:30:21 UTC
From: PHILIP GRAITCER
Topic: 10521 Message: 10548

It would be nice to have a definitive answer whether or not a fully charged 3S LiPO battery produces too much voltage for the MTR or ATS.

My thought is with a load, the voltage for 3S LiPOs will not be much above 12V for long. I've always thought that Steve's caution about using more than 12 volts meant don't use a bench supply since it would produce a voltage that would be at 13.6 and never drop.

I've been using 3S LiPOs and chargers purchased from Hobby King to run most of my /p rigs, including the KX1 and the Weber line. I try to use resonant antennas along with a tuner - either an Elecraft T1 or a SOTA type EFHW tuner.

I've always liked this article on batteries:
http://www.rchelicopterfun.com/rc-lipo-batteries.html

Phil, W3HZZ

10549. Re: [AT_Sprint] Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 21:38:36 UTC
From: TJ Campie
Topic: 10521 Message: 10549

The reason I wanted to use a lipo battery would be to get a bit more power
at the antenna, with 9 volts, I get about 2.5v. At 11, can get 4 ish
On Mar 22, 2013 4:30 PM, "PHILIP GRAITCER" <pgraitc@...> wrote:

> **
>
>
> It would be nice to have a definitive answer whether or not a fully
> charged 3S LiPO battery produces too much voltage for the MTR or ATS.
>
> My thought is with a load, the voltage for 3S LiPOs will not be much above
> 12V for long. I've always thought that Steve's caution about using more
> than 12 volts meant don't use a bench supply since it would produce a
> voltage that would be at 13.6 and never drop.
>
> I've been using 3S LiPOs and chargers purchased from Hobby King to run
> most of my /p rigs, including the KX1 and the Weber line. I try to use
> resonant antennas along with a tuner - either an Elecraft T1 or a SOTA type
> EFHW tuner.
>
> I've always liked this article on batteries:
> http://www.rchelicopterfun.com/rc-lipo-batteries.html
>
> Phil, W3HZZ
>
>

10550. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 21:39:42 UTC
From: n1rx
Topic: 10521 Message: 10550

I've been using 3S LiPos for years on all the ATS series, never a problem. I've also used it on an MTR without issue. While that may not be "definitive", it is mine (and others) experience.

72,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, PHILIP GRAITCER <pgraitc@...> wrote:
>
> It would be nice to have a definitive answer whether or not a fully charged 3S LiPO battery produces too much voltage for the MTR or ATS.
>
> My thought is with a load, the voltage for 3S LiPOs will not be much above 12V for long. I've always thought that Steve's caution about using more than 12 volts meant don't use a bench supply since it would produce a voltage that would be at 13.6 and never drop.
>
> I've been using 3S LiPOs and chargers purchased from Hobby King to run most of my /p rigs, including the KX1 and the Weber line. I try to use resonant antennas along with a tuner - either an Elecraft T1 or a SOTA type EFHW tuner.
>
> I've always liked this article on batteries:
> http://www.rchelicopterfun.com/rc-lipo-batteries.html
>
>
> Phil, W3HZZ
>

10551. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 22:06:43 UTC
From: Tim Goodrich
Topic: 10521 Message: 10551

I've been using a set of 9 AA's with one dummy cell in a 10 AA pack. Unfortunately, this is a bit of heavy for some of the long treks and I've been exploring other ideas for use with the MTR. I have a buck-boost regulator, but it's size is half that of the whole MTR (too big) and a bit heavy too. I also have a 12v regulator, but for heat sink reasons, can only handle a 3w differential (no go with a 4s and 3s will drop too low).

So, when Fred said some chargers will stop at a predetermined voltage, he got my attention. Fred, do you or anyone else have some links you could post up of different 3s lipo chargers that would work?

"I use a tiny SP switch and diodes to drop the voltage tuning, and intially, but you can program your charger to stop at any voltage you want."

fred - kt5x

Thanks,

Tim

K6TW

10552. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 22:50:25 UTC
From: zigmundrat
Topic: 10521 Message: 10552

While not many cheap chargers have programmable cell voltage for each chemistry(Pb,LiIo,LiPo,LiFe), they do have the ability to do a 'storage charge' for Lithium batteries which is just about as good. This limits the charge to something like 3.85V/cell (LiPo). Thus for a 3S LiPo you would start off at about 11.5V. Perfect.

The other option is to just use a LiFe battery which is 3.3V/cell and will safely go down to 2.5V/cell or lower.

No need to use diodes or other stuff with either solution.

(Not endorsing it, but one example of a charger is the Turnigy Accucel 6. <https://www.sparkfun.com/datasheets/Prototyping/Batteries/ACCUCEL_manual%282%29.pdf> There are plenty of others, and quality varies of course.)

I think the best answer is to go with LiFe. No need to worry about over voltage, tuning power, or over discharge. I think you'll notice when the battery gets down to 6V, the point at which over-discharge may become an issue.

--- In AT_Sprint@yahoogroups.com, "Tim Goodrich" <tim@...> wrote:
>
> I've been using a set of 9 AA's with one dummy cell in a 10 AA pack.
> Unfortunately, this is a bit of heavy for some of the long treks and I've
> been exploring other ideas for use with the MTR. I have a buck-boost
> regulator, but it's size is half that of the whole MTR (too big) and a bit
> heavy too. I also have a 12v regulator, but for heat sink reasons, can only
> handle a 3w differential (no go with a 4s and 3s will drop too low).
>
>
>
> So, when Fred said some chargers will stop at a predetermined voltage, he
> got my attention. Fred, do you or anyone else have some links you could post
> up of different 3s lipo chargers that would work?
>
>
>
>
>
> "I use a tiny SP switch and diodes to drop the voltage tuning, and intially,
> but you can program your charger to stop at any voltage you want."
>
> fred - kt5x
>
>
>
> Thanks,
>

> Tim
>
> K6TW
>

10553. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 22:57:35 UTC
From: camqrp@...
Topic: 10521 Message: 10553

I bought a dozen used 1100 MAh cell phone batteries from an internet auction site. From that bunch I was able to make 3 3-cell packs, each of which will run my MTR for longer than any outing I can muster. Three of them taped together makes a nice little stack that fits inside the box.

The only aggravation is charging them. I had to make up a little charging fixture from small pieces of PC-board material and then charge each individual cell separately. A real pain, but once charged, they seem to hold a charge forever.

Cam N6GA

--- In AT_Sprint@yahoogroups.com, "Tim Goodrich" <tim@...> wrote:
>
> I've been using a set of 9 AA's with one dummy cell in a 10 AA pack.
> Unfortunately,

10554. Re: [AT_Sprint] Re: MTR Build Soldering Question for Prior Builders - hot air SMD reflow station

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 23:46:47 UTC
From: XV4Y (Yan)
Topic: 10486 Message: 10554

Hi Dale,

I think it's a good thing to give some "builder's advices" since with the new MTR batch there might be a few OM new to the thing.

I assembled mine with an iron, hand soldering, but complementary to yours, there are some advices good for both ways of building :
- take it easy, go slow,
- always ensure you are not too tired and you have good light on the working area,
- use a large box cover with edges when you have to open a bag to sort out parts,
- use small closed boxes (like the one for weekly medication) to store open reels of parts,
- check parts and parts placement twice, and perhaps one more time,
- keep an updated inventory of the parts so you can cross-check any misplacement
- do electrical continuity check after you placed the ICs to track down cold solders as soon as possible

If you have a good sight and steady hands, SMT soldering is not harder than through hole. In fact I found it easier because you don't have to bend the resistor legs, cut them, and the soldering is done on the same side than the part placement.
However, with SMD it is hard to correct a part misplacement (unsoldering is tricky) and troubleshooting is not as easy (you cannot put a part out of the circuit to check what happen or replace it easily). That's the reason you have to go slow and check things twice (and twice more perhaps) before soldering.

Enjoy building!
73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 22 mars 2013 à 23:04, Dale Putnam a écrit :

>
>
> Hi Brian,
> gentle and slow... nothing real fast... that's the key... to preheat and airflow. These little critters are skittish.. and fly at the
> first hint of any movement... so plan ahead... and go slow.
> The Hendricks dummy load is a great practice piece.. and one more hint.. if you use tweezers.. to pick up parts...
> Put a large sheet of plastic under your work surface, and under your grounded mat, with the edges tipped up, to catch the flying
> critters as they try to escape. This will work for the first kit.. practice or

otherwise.. until your fingers learn very light touch..
> Good LUck!!!
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> To: AT_Sprint@yahoogroups.com
> From: brianpepperdine@...
> Date: Fri, 22 Mar 2013 00:22:54 +0000
> Subject: [AT_Sprint] Re: MTR Build Soldering Question for Prior Builders - hot air SMD reflow station
>
> Well, for better or worse...I got a hot air SMD Reflow station. The MTR will probably be the first real thing I build with it.
> However, I have a couple small SMD projects I intend to start with.. one of which is the Hendricks QRP Kits Dummy load.
>
> Anyhow, some weeks back George the 'build it' guy on the Twit TV HamNation videocasts (hosted by Bob Heil) had shown the hot air SMD reflow station he had recently obtained. It was about 69$ on special, and he used it on the last stages of the Soft Rock kit he was doing.
>
> Anyhow, it came to pass that the same station (under a number of names) came up on eBay from a local supplier local to me in Canada, so I got one. I was concerned about the velocity of the embossing gun air, though LOTS of fellows have used them, figuring at the cost I would indulge in a reflow station with adjustable temp and air flow.
>
> I will use that, probably with the griddle I got in WalMart 2 years ago after LobsterCon New England QRP gathering in Maine, on the suggestion of Steve as a pre-warmer. And of course I will be able to flip the board over, put it raised up on pennies and then reflow the components on the other side, using solder paste.
>
> Dunno, the griddle pre-heating might be redundant with the reflow station, but I can play around and see. On-line videos I believe do show pre-heating being done in conjunction with hot air reflow and solder paste.
>
> These eyes will never see (ha) me do SMD with a soldering iron.
>
> 72
> Brien
> VE3VAW
>
> --- In AT_Sprint@yahoogroups.com, "wheeler2roh" <wayne.wheeler@...> wrote:
> >
> >
> > Thanks Dale-

> >
> > I guess you don't have any problem with SMT parts on the bottom loosening up while you're heating the top of the board with hot air?
> >
> > Wayne
> >
> >
> > --- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@> wrote:
> > >
> > > Hi Wayne, You could try that... if you just have to. However, I've had a whole lot better luck with using the solder paste on either side.. or both sides,and using four pennies to stand the board off the cup warmer ... on both sides. Careful handling.. is called for of course.. and one more note....I NEVER move the board, after the solder has flowed on the second side.. until the cup warmer has cooled on its own. I'm sure there are lots of other suggestions, but this is the best I've found after building a doz or so MTRs. Good Luck!
> > >
> > > Have a great day,
> > >
> > >
> > > --... ...--
> > > Dale - WC7S in Wy
> > >
> > >
> > >
> > > To: AT_Sprint@yahoogroups.com
> > > From: wayne.wheeler@
> > > Date: Wed, 20 Mar 2013 23:50:42 +0000
> > > Subject: [AT_Sprint] MTR Build Soldering Question for Prior Builders
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> > > So, now that I have placed my MTR order, I've plugged in the soldering iron and am waiting by the mailbox :) Thanks Steve!
> > >
> > >
> > >
> > > Something on the MTR construction I'd been wondering about.
> > >
> > >
> > >
> > > Am planning to use soldering paste to build the bottom side (Side with MSP430) that has most of the SMT components. This would be with hot plate and embossing gun.
> > >
> > >
> > >
> > > My question is on the SMT components on the "top" side. There are are fair number of SMT resistors and capacitors on this side, as well as two SMT IC's. Since I can't put the board on the hot plate at this point (bottom components in place), am I forced to hand solder everything on this side? I haven't done "embossing gun only" with solder paste, but maybe that works.
> > >
> > >
> > >
> > > Was just wondering what prior builders found successful.
> > >
> > >
> > >
> > > Wayne
> > >
> > > W6AHH
> > >
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>
>

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

10555. Re: [AT_Sprint] Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-22 23:08:35 UTC
From: Gil G.
Topic: 10521 Message: 10555

Hello,

Could a solar panel be plugged in directly into a lipo charger like that Turnigy Accucel 6? I am thinking of a 10W panel, 600mA..

Gil.

10556. Re: [AT_Sprint] Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 00:24:55 UTC
From: WVØH
Topic: 10521 Message: 10556

Gil,

I'm thinking of doing the same thing but you would need to have a bigger panel. The output from solar panels falls off rapidly and when clouds come over, the charger will dump and sit there until you restart it. I was going to take a different approach by charging my Zippy through its balance plug only. Low level current could be fed into each cell individually by 4 cheap 10W panels (mine is 4S) You know the ones that sit on your dash and attempt to charge your car battery. My design consists of 4 of these 10W panels individually feeding four LM-317T's set to 3.6V(or whatever matches your cell chemistry). The grounds are isolated so they wouldn't short out the battery. A bit inefficient but without switching noise of any switch mode regulator.

The coolness factor of this could get really fun by incorporating an Arduino into controlling and monitoring the charge.

Myron WVØH
Printed on Recycled Data

On Mar 22, 2013, at 5:08 PM, "Gil G." <gil@keskydee.com> wrote:

> Hello,
>
> Could a solar panel be plugged in directly into a lipo charger like that
> Turnigy Accucel 6? I am thinking of a 10W panel, 600mA..
>
> Gil.
>
>

10557. Re: [AT_Sprint] Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 01:24:59 UTC
From: Hank Greeb
Topic: 10521 Message: 10557

Personally, I can't see reason to try to squeek out 2 more watts that a 9 volt pack will give you. If I were to use a or 11.1 volt (nominal) LiPo/Li-Ion pack with 12.8 volts fully charged, I'd use a 1 volt Zener, or a pair of 0.5 volt zeners in series, with a monitor on the battery voltage, and short out the diodes when the voltage got below 12 VDC.

I've run my AT-Sprint (original version), optimized for 9 volts, with an 8 pack of NiMH pack, which has ~ 10.6 volts fully charged, and which drifts down to 9 volts rather quickly. Why optimize of 9 VDC? It's easier on the finals to run at that voltage. The rig will tolerate SWR ~3.0 on an antenna with nary a problem. If I were to run 12 volts or slightly more, I'd endanger the finals, and maybe get ~5 watts out, and I would need to be very careful of the SWR.

Ain't worth it to me.

BTW, in case you've forgotten, I joined several other nutty hams who had a ball running the North American QSO Party with these kinds of rigs last August. We were mostly running ~ 3 watts to various rigs designed by KD1JV. See my article on the subject at
http://www.w8dc.org/grr_images/Greeb2.pdf

That's all I have to say on the subject. To each his own, potato row.

72/73 de n8xx Hg
QRP >99.44% of the time

10558. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 01:44:14 UTC
From: wa2ohf
Topic: 10521 Message: 10558

I use Dewalt cordless drill 11.5 volt Lithium Ion and will recharge in 20 minutes it says 12 V but it is only 11.9 fully charged. it was easy to take a PCB and solder a small square to each lead that slide into the battery pack. Now my drill always has a charged pack HI HI
.
Arthur Ripple

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> You'd want to be a bit more careful of the load SWR, but other wise shouldn't be a problem.
> KD1JV
> Interesting idea indeed...although I wonder if the initial 12.6 volts for a fully charged 3S LiPo might be a tad on the high side for the MTR without a diode or two to drop it? I thought 12V was the absolute maximum and better to be between there and 9V?
>
>
> 73 Marc G0AZS
>

10559. Re: [AT_Sprint] Need some input - ? OK?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 01:55:29 UTC
From: Gilbert Gibbs
Topic: 8679 Message: 10559

To all three (?) OMs who responded to my plea about "Chrome", thanks for the advice, I did an install, then goofed from the start. I'll have to dump it from my system, reinstall, then find a "readme" file to figure out its tricks. There are pluses and minuses on it, yet as I learn how to use it, I have far fewer problems than with "I.E.", it's a monster, then Firefox tends to crash at times.
What I'll do is be careful of how many browsers I have up and going, then learn how to dump items that sneak in! Eventually, as I get my mess tamed in my shack, I'll get as far away from email and the Internet as is possible, use XP as a control for my Kachina rigs and whatever other rigs that will respond to commands from those "Indians". Perhaps "Chrome" will be of benefit in areas that demand a lot of security, who knows.

All input is very appreciated, now to use time in cleaning up the shack, looking forward to hearing signals from the HF gear again, pursue the installation of my rigs and antennas in the "ranch QTH" before hurricane season.

73's, best to all,

Gil WA5YKK

(We never had messy digital problems on the Internet, now we take a chance on it while trying to tame a rig that can be controlled by these infernal hexadecimal machines!)

BTW - Does anyone have a preference for a "shack speaker"? I've looked in different catalgues, found one that might even work mobile, yet a tiny thing about fist size is nearly full range, takes plenty of watt punishment..... but each one costs from $50 to $100, depending on what you want. Incredible, the advances in speaker tech these days!

10560. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 04:25:26 UTC
From: Dennis
Topic: 10521 Message: 10560

For my really, really long hikes, I prefer the disposable Lithiums. I don't always have anywhere to charge batteries in the woods, and carrying the charger is additional weight. I've found those Energizer disposables last forever and are light. I've posted some photos tonight of the six-cell version of the charge that I used in the book, Three Hundred Zeroes.

Photos of battery box and internals can be seen at:
http://groups.yahoo.com/group/AT_Sprint/photos/album/785358388/pic/list
<http://groups.yahoo.com/group/AT_Sprint/photos/album/785358388/pic/list\
>

The battery box is just some thin PC board with copper cut away to form "jumpers" for the batteries to put them in series. To keep tension against the batteries, I used some stiff foam and glued it to the tin. Actually, the foam already had a sticky back.

If there is a really strong desire to add a seventh, or even eighth cell, one might consider just adding it in line. A piece of 3/4" PVC about 2.5 inches long should work. Cut a slot on both sides of the PVC, near both ends, just wide enough to slip a small piece of PC board through the slot, copper facing the battery side. On one end, Super Glue the board in and solder a wire to it. This will be one end of the contact for the battery.

Wrap some thin cardboard or sheet plastic around a AA battery (to take up the extra space) and slip it into the tube. Slide another piece of PC board in the slot at the other end, copper facing the battery, and then stuff enough foam rubber in to force the copper up against the battery. This slot may need to have some "slop" in it to allow the PC board to push against the battery. Put a 3/4 inch PVC cap on the open end, forcing the foam rubber down and put a small screw in to hold the cap on (or drill some holes and put an expansion pin in). Solder a wire to the second PC board.

Alternatively, the second PC board could be filed round to fit inside the PVC and then glue it to the foam and push it down in, with a wire soldered to it.

Eventually, I'll get around to making one and posting a photo if anyone wishes. It ends up looking like a fat inline, fuse holder. There is no reason one couldn't package all the batteries like this, putting two or three to a tube and then tie-wrap, or tape the tubes together for a rugged, reliable battery pack.

One could use springs, but I hate the bloody things. They rust, break and otherwise are unreliable. Flashlights have used springs for almost a century, and we're always "banging" the flashlight to get a good contact. The foam gives a nice, steady, widespread pressure and has served me well in the wilderness. I started out the Appalachian Trail with those cheap, black or white plastic things that use springs, and after a few hundred miles, I had to improvise in the woods. I found some

cardboard and made a holder similar to the PVC tube I described above, and it lasted for almost 2000 miles. I've since gone to the Altoids carrier and it has been fabulous.
Dennis, K1YPP
--- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
>
> So with the new cases, Steve said there'd be room to put a battery internal
> to the unit. How much room? Obviously room enough for a 9v but there's
> some pretty small 3S LiPo batteries that run at 11.1v at about 1300mAh that
> would be perfect.
>
> So Steve - how much room would you say there is for a battery?
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>

10561. Re: [AT_Sprint] Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 04:40:57 UTC
From: Hank Greeb
Topic: 10521 Message: 10561

I highly recommend "Three Hundred Zeros" for an excellent tutorial on how to do "real" QRP operating while on a looonnnngggg hike.

I'd NOT recommend getting into a situation where one needs "Three Hundred Zeros" to recuperate from a multiple heart bypass operation, but I'm very glad to note that the author managed those zeros quite well!

Note, I don't plan to every hike the entireAppalachian Trail, in one year or in 10segments, one each year, but I truly admire folks who go on such adventures.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/23/2013 12:25 AM, Dennis wrote:
>
> <snip>
> I've posted some photos tonight of the six-cell version of the charge
> that I used in the book, Three Hundred Zeroes.
>
> Photos of battery box and internals can be seen at:
>
> http://groups.yahoo.com/group/AT_Sprint/photos/album/785358388/pic/list
>
> The battery box is just some thin PC board with copper cut away to
> form "jumpers" for the batteries to put them in series. To keep
> tension against the batteries, I used some stiff foam and glued it to
> the tin. Actually, the foam already had a sticky back.
> <snip>

10562. Re: [AT_Sprint] Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 04:51:16 UTC
From: Hank Greeb
Topic: 10521 Message: 10562

I note you have a "Zomboids" package for your power supply. Is that just a decal or similar on an Altoids tin? It lookslike something from qrpme? Is this true?

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/23/2013 12:25 AM, Dennis wrote:
>
>
> For my really, really long hikes, I prefer the disposable Lithiums. I
> don't always have anywhere to charge batteries in the woods, and
> carrying the charger is additional weight. I've found those Energizer
> disposables last forever and are light. I've posted some photos
> tonight of the six-cell version of the charge that I used in the book,
> Three Hundred Zeroes.
>
> Photos of battery box and internals can be seen at:
>
> http://groups.yahoo.com/group/AT_Sprint/photos/album/785358388/pic/list
>
> The battery box is just some thin PC board with copper cut away to
> form "jumpers" for the batteries to put them in series. To keep
> tension against the batteries, I used some stiff foam and glued it to
> the tin. Actually, the foam already had a sticky back.
> <snip>

10563. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 09:44:17 UTC
From: bill_w4zv
Topic: 10521 Message: 10563

I believe Steve has answered this question previously. You need to avoid excessive current through the final transistors (2N7000s or the more rugged BS170s). This means you must avoid operating into reactive loads when using >12V. Use either a known resonant antenna or a Tayloe-style bridge tuner which presents a non-inductive load to the transmitter independent of antenna load during TUNE mode. The Hendricks SOTA-tuner and the Emtech ZM-2 both use this type of bridge in TUNE mode.

I'm still on my original set of 2N7000s in my ATS-3 running 12.6V from 3S LiPOs, but I'm always very careful to be sure the antenna is resonant. If I'm concerned at all, I carry a 9V transistor for lengthy TUNEs and then switch to the 3S LiPO.

73, Bill W4ZV

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
>
> I've been using 3S LiPos for years on all the ATS series, never a problem. I've also used it on an MTR without issue. While that may not be "definitive", it is mine (and others) experience.
>
> 72,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, PHILIP GRAITCER <pgraitc@> wrote:
> >
> > It would be nice to have a definitive answer whether or not a fully charged 3S LiPO battery produces too much voltage for the MTR or ATS.
> >
> > My thought is with a load, the voltage for 3S LiPOs will not be much above 12V for long. I've always thought that Steve's caution about using more than 12 volts meant don't use a bench supply since it would produce a voltage that would be at 13.6 and never drop.
> >
> > I've been using 3S LiPOs and chargers purchased from Hobby King to run most of my /p rigs, including the KX1 and the Weber line. I try to use resonant antennas along with a tuner - either an Elecraft T1 or a SOTA type EFHW tuner.
> >
> > I've always liked this article on batteries:
> > http://www.rchelicopterfun.com/rc-lipo-batteries.html
> >
> >
> > Phil, W3HZZ
> >
>

10564. RE: [AT_Sprint] Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 11:50:09 UTC
From: James Rodenkirch
Topic: 10521 Message: 10564

Another excellent antenna tuner, light weight and more efficient than the Hendriks offering, used by many SOTA and other /p ops is the KI6J End Fed Half Wave antenna tuner which employs the Tayloe bridge for tuning. Find out more here: www.betterqrp.com

Stu, KI6J, has a collection of Balun kits that are lightweight and easy to put together as well.

72, Jim R. K9JWV

To: AT_Sprint@yahoogroups.com
From: btippett@...
Date: Sat, 23 Mar 2013 09:44:17 +0000
Subject: [AT_Sprint] Re: Batteries for the MTR

I believe Steve has answered this question previously. You need to avoid excessive current through the final transistors (2N7000s or the more rugged BS170s). This means you must avoid operating into reactive loads when using >12V. Use either a known resonant antenna or a Tayloe-style bridge tuner which presents a non-inductive load to the transmitter independent of antenna load during TUNE mode. The Hendricks SOTA-tuner and the Emtech ZM-2 both use this type of bridge in TUNE mode.

I'm still on my original set of 2N7000s in my ATS-3 running 12.6V from 3S LiPOs, but I'm always very careful to be sure the antenna is resonant. If I'm concerned at all, I carry a 9V transistor for lengthy TUNEs and then switch to the 3S LiPO.

73, Bill W4ZV

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:

>

> I've been using 3S LiPos for years on all the ATS series, never a problem. I've also used it on an MTR without issue. While that may not be "definitive", it is mine (and others) experience.

>

> 72,

> Bruce, N1RX

>

> --- In AT_Sprint@yahoogroups.com, PHILIP GRAITCER <pgraitc@> wrote:

> >

> > It would be nice to have a definitive answer whether or not a fully charged 3S LiPO battery produces too much voltage for the MTR or ATS.

> >

> > My thought is with a load, the voltage for 3S LiPOs will not be much above 12V for long. I've always thought that Steve's caution about using more than 12 volts meant don't use a bench supply since it would produce a voltage that would be at 13.6 and never drop.

> >

> > I've been using 3S LiPOs and chargers purchased from Hobby King to run most of my /p rigs, including the KX1 and the Weber line. I try to use resonant antennas along with a tuner - either an Elecraft T1 or a SOTA type EFHW tuner.

> >

> > I've always liked this article on batteries:

> > http://www.rchelicopterfun.com/rc-lipo-batteries.html

> >

> >

> > Phil, W3HZZ

> >

>

10565. Re: [AT_Sprint] Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 03:58:08 UTC
From: Gil G.
Topic: 10521 Message: 10565

On Fri, 2013-03-22 at 18:24 -0600, WVØH wrote:
>
> Gil,
> I'm thinking of doing the same thing but you would need to have a
> bigger panel. The output from solar panels falls off rapidly and when
> clouds come over, the charger will dump and sit there until you
> restart it.
> The coolness factor of this could get really fun by incorporating an
> Arduino into controlling and monitoring the charge.

Interesting, thanks. I didn't know the charger would not restart by
itself.. I yet have to look into the Arduino, interesting gizmo..

Gil.

10566. Re: [AT_Sprint] ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 15:42:51 UTC
From: Håkan Olsson
Topic: 5421 Message: 10566

Steve,

I think you should seriously consider handing the ATS-4B over to
Hendricks. Possibly with all SMP:s pre-mounted on the circuit board.

It is just too a good design being reserved for just the few who
happened to buy one when you released it. For such an ideal portable rig
a price of 300$+ is no problem!

H?kan / SM6EQO

Steven Weber skrev 2013-03-22 21:36:
>
> > Steve,
> > I have only just joined the group so you may have been asked several
> > times. Do you have any plans to produce any more of the ATS4 type
> kits as
> > I prefer more bands than the two bands in the MTR.
> > 73 Andrew G4AFI
>
> Not in the for-see-able future, but one never knows...
>
> Steve
>
>

10567. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 15:53:00 UTC
From: Dennis
Topic: 10521 Message: 10567

You're correct Hank, that Altoids tin is actually painted with the Zomboids logo by QRPme.com. Rex, W1REX had those mints put together for an event a few years ago. I had the empty tin after using up the mints. I might note that the antenna tuner in the photo of the "station in a box," is also from QRPME.com. It is a standard serial L tuner that Rex has dubbed the "Tuna Tunah," (that's Maine talk for Tuna Tuner).
http://qrpme.com/?p=product&id=TTH <http://qrpme.com/?p=product&id=TTH>
On the AT, I had a homebrewed version of that tuner and it worked well. The QRPME version is an improved version, that has a low-impedance mode that allows it match up with just about any antenna configuration, maybe even a "wet noodle". I'm not, in any way, involved with QRPME.com, I'm just a very happy customer. The Tunah is a bit expensive because it uses real toggle switches and it is just impossible to find that quality of a switch for a reasonable price. You get what you pay for.
A note about KD1JV: Steve has changed the landscape of hiking/QRP forever. His ATS series is beyond compare. I've taken that rig on many LONG hikes and it never fails to amaze me. The batteries last forever, the rig weighs nothing and I never lack for contacts. Hank's previous comments about Three Hundred Zeroes (http://tinyurl.com/2f74mdt) don't capture how important Steve's rig was to my completing the AT hike. I started out the hike with a homebrewed rig that weighed over three pounds. After 600 miles, and a six-artery heart bypass, I took three hundred days off and returned to the trail to finish the hike. During the three hundred day rehabilitation, Steve sent me an old proto-type of his ATS-3A and told me to use it. He figured the three pound rig was the reason I had the heart failure in the first place! Actually, it was genetic, but I digress. The ATS was a game changer for me. Replacing that three pound-plus rig with his, meant I could carry several days more food, not an insignificant change. It also used fewer batteries.
In 2011, Jane, KA1FUN and I hiked the Camino de Santiago, Spain. It was a 500 mile trek. I had the pleasure of using the ATS3A on that trip and had a ball with it. Operating in Europe was fantastic, especially on 40/30M. I used the Lithiums for most of the hike and had to replace them with standard alkalines near the end. I'm still working on the book about that experience. I should have finished by now, but life just has too many distractions.
Speaking of which, Jane and I are leaving for Barcelona, Spain in late April and will be bicycling/hiking all over Europe, for up to six months. We'll be riding in Spain, Portugal, U.K., Belgium, Luxembourg, France, Holland, and possibly, Germany. Once again, the ATS3 will be pressed into service. I'll hang around all the usual QRP watering holes and will post on QRPspots.com, whenever possible. Hopefully, I'll work a few of you from that expedition. I had no trouble working stateside stations from over there, using QRP and a "wet noodle."
Dennis, K1YPP

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
> I note you have a "Zomboids" package for your power supply. Is that
> just a decal or similar on an Altoids tin? It lookslike something
from
> qrpme? Is this true?
...

10568. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 17:42:20 UTC
From: Dave AA7EE
Topic: 8679 Message: 10568

Gentlemen - shaping of the transmitted waveform in the CC1 is provided by R42 and C44, and it sounds nice. If you read my blog-post, which was referenced earlier in this thread, you'll see that I was talking about the sidetone and NOT the transmitted signal. The CC1 is still in beta, and softening the leading edge of the sidetone waveform to get rid of the click should be a simple matter.

Apologies for the invasion in your group Steve, but I don't like to see what looks like misinformation being spread. I was sorely tempted to buy one of your MTR's but I have so many projects here (non-ham ones in particular) and only so many hours in the day!

Dave
AA7EE

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> > Hmm, no keyclick filter.
>
> Yea, that's not good. I also don't know why he only gets a little over 2W
> with 12V supply. The FDS86106, while having a bit more gate capacitance then
> three BS170's, it looks like it should switch fast enough.
>
> Steve KD1JV
>

10569. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 17:48:16 UTC
From: n1rx
Topic: 10521 Message: 10569

Sharp-eyed observers will note the mis-spelling on the Zomboids tins. I am pretty sure Rex still has some of these, as he's been bringing them to Lobstercon each summer.
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Dennis" <k1ypp@...> wrote:
>
> You're correct Hank, that Altoids tin is actually painted with the
> Zomboids logo by QRPme.com. Rex, W1REX had those mints put together for
> an event a few years ago. I had the empty tin after using up the mints.

10570. RE: [AT_Sprint] Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 18:27:13 UTC
From: James Rodenkirch
Topic: 10521 Message: 10570

Speaking of Lobstercon ---hope to see some of you at this year's "gathering" as the XYL and I will be driving our RV out that way to attend! 72, Jim Rodenkirch K9JWV
To: AT_Sprint@yahoogroups.com
From: bruce.beford@myfairpoint.net
Date: Sat, 23 Mar 2013 17:48:16 +0000
Subject: [AT_Sprint] Re: Batteries for the MTR

Sharp-eyed observers will note the mis-spelling on the Zomboids tins. I am pretty sure Rex still has some of these, as he's been bringing them to Lobstercon each summer.

73,

Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Dennis" <k1ypp@...> wrote:

>

> You're correct Hank, that Altoids tin is actually painted with the

> Zomboids logo by QRPme.com. Rex, W1REX had those mints put together for

> an event a few years ago. I had the empty tin after using up the mints.

10571. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 18:32:03 UTC
From: jgaffke
Topic: 8679 Message: 10571

Neat trick! Thanks for the clarification!
So the 74AC08 gates are spending a considerable amount
of time in the transition region. I wouldn't have thought
it would work that well through two levels of gates.
But if it does, it's a very elegant solution.

--- In AT_Sprint@yahoogroups.com, "Dave AA7EE" wrote:
> Gentlemen - shaping of the transmitted waveform in the CC1 is provided by R42 and C44, and it sounds nice.
> > > Hmm, no keyclick filter.

10572. Re: [AT_Sprint] ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 19:15:44 UTC
From: Hank Greeb
Topic: 5421 Message: 10572

90+% of the parts in the AT-Sprint series are surface mount.

On 3/23/2013 11:42 AM, H?kan Olsson wrote:
> Possibly with all SMP:s pre-mounted on the circuit board.

10573. RE: [AT_Sprint] ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 19:22:52 UTC
From: Dale Putnam
Topic: 5421 Message: 10573

ABout 2/3 of the board, and 3/4 of the time.What putting the AT4 at Hendricks would do, would make it available for those who don't have a way to get one during the 'rush' as it is now.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: n8xx@...
Date: Sat, 23 Mar 2013 15:15:44 -0400
Subject: Re: [AT_Sprint] ATS4

90+% of
the parts in the AT-Sprint series are surface mount.

On 3/23/2013 11:42 AM, Håkan Olsson
wrote:

Possibly with all SMP:s pre-mounted on the circuit board.

10574. RE: [AT_Sprint] ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 21:00:01 UTC
From: Mike Olbrisch
Topic: 5421 Message: 10574

I agree!!!!!

I will need two more. One for the Grandson in the next year or 2, and one for the new Grand-daughter about 4 years after that.

All the moms and dads are hams, they will appreciate it.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Håkan Olsson
Sent: Saturday, March 23, 2013 09:43
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] ATS4

Steve,
I think you should seriously consider handing the ATS-4B over to Hendricks.
Possibly with all SMP:s pre-mounted on the circuit board.
It is just too a good design being reserved for just the few who happened to buy one when you released it. For such an ideal portable rig a price of 300$+ is no problem!
Håkan / SM6EQO

Steven Weber skrev 2013-03-22 21:36:

> Steve,
> I have only just joined the group so you may have been asked several
> times. Do you have any plans to produce any more of the ATS4 type kits as
> I prefer more bands than the two bands in the MTR.
> 73 Andrew G4AFI

Not in the for-see-able future, but one never knows...

Steve

10575. RE: [AT_Sprint] Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 21:06:18 UTC
From: Mike Olbrisch
Topic: 10521 Message: 10575

Dennis,

I will be in the Rhone Mountains of Northern Bavaria from 6 June to 24 June. I will be hiking a good bit (SOTA summits), but I would certainly get down to a road if there were any chance of crossing paths with you. The nearest major city is Schweinfurt, but my base of operations will actually be Strahlungen, right near the border of Bavaria, Hessen and Thuringia.

Any chance?

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dennis
Sent: Saturday, March 23, 2013 09:53
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Batteries for the MTR

Speaking of which, Jane and I are leaving for Barcelona, Spain in late April and will be bicycling/hiking all over Europe, for up to six months. We'll be riding in Spain, Portugal, U.K., Belgium, Luxembourg, France, Holland, and possibly, Germany. Once again, the ATS3 will be pressed into service. I'll hang around all the usual QRP watering holes and will post on QRPspots.com, whenever possible. Hopefully, I'll work a few of you from that expedition. I had no trouble working stateside stations from over there, using QRP and a "wet noodle."

Dennis, K1YPP

10576. Re: [AT_Sprint] ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 21:14:21 UTC
From: Håkan Olsson
Topic: 5421 Message: 10576

Yes Hank, you are absolutely right, but quite a lot of people seems to have a problem with SMP:s. Besides Hendricks only have kits with through-hole-parts. Even so, why should the ATS-4b only be a rig for the the selected club of those with steady hands and good eyesight and no fear of SMP:s?

H?kan / SM6EQO

Hank Greeb skrev 2013-03-23 20:15:
>
> 90+% of the parts in the AT-Sprint series are surface mount.
>
> On 3/23/2013 11:42 AM, H?kan Olsson wrote:
>> Possibly with all SMP:s pre-mounted on the circuit board.
>
>

10577. Re: MTR Manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 22:15:00 UTC
From: Colin
Topic: 8679 Message: 10577

Steven,

I've been reading through the MTR_2 manual in readiness to put together the MTRs that I will be building.

I think that the section on the 'band select' resistors might be a little confusing for first time builders. In the manual for the first run of MTRs the table of band select resistors also included text explaining which resistor placement did which band ie R3(BS1) for the highest frequency band of choice (20m) and R4 (BS2) for the lowest frequency band of choice (40m).

Best wishes,
Colin, M0CGH

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> I'll upload a new manual soon. I just need to add few pictures of the new
> enclosure. No doubt the eagle eyed, nit picking proof readers will find a
> few things I'll need to correct, (which I really appreciate) so would like
> to do that real soon.
>
> The new board is almost identical to the first one, but I changed from using
> through hole caps in the low pass filter to using chip caps.
>
> I'm also trying a new color coding scheme for the chip caps, which uses the
> resistor color code to indicate thier values instead of using random colors.
> Which turned out to a real time consuming pain in the butt to do until I
> thought of making a jig to hold the parts tape or spool.
>
> Steve
> >
> > Do you plan to release a new version of the MTR manual or will we use the
> > one in FILES section of this group (dated April 2012) ?
> >
>

10578. Re: [AT_Sprint] ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-23 23:13:05 UTC
From: Gil G.
Topic: 5421 Message: 10578

And the MTR! I am going to need a backup!

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 23, 2013, at 5:00 PM, Mike Olbrisch wrote:

> Steve,
>
> I think you should seriously consider handing the ATS-4B over to Hendricks. Possibly with all SMP:s pre-mounted on the circuit board.
>

10579. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 00:58:15 UTC
From: Steven Weber
Topic: 8679 Message: 10579

Sorry, but that does NOT shape the transmitted wave form. It simply shifts the turn on/turn off time of the gate a little. If you sync a scope to the keying line and look at the output signal, it will simply turn on and off a few milliseconds after the key is closed or opened. Those two parts could be eliminated with zero effect on the output signal.

The only way to properly shape the output signal with that topology is to ramp the PA supply voltage up and down as I do in all the ATS rigs. I invented that transmitter circuit 10 years ago.

At 2-3 watts, it really isn't a big deal to have key click supression or not, but the signal will have a narrower bandwidth and sound a little better at distance if it does. I opted to add the extra parts to do it right.

As for the sidetone click, he has a lot of filtering on it already, I suspect it has more to do with the muting circuit than anything else. Been down that road a few times.

Steve KD1JV

>
> Gentlemen - shaping of the transmitted waveform in the CC1 is provided by
> R42 and C44, and it sounds nice. If you read my blog-post, which was
> referenced earlier in this thread, you'll see that I was talking about the
> sidetone and NOT the transmitted signal. The CC1 is still in beta, and
> softening the leading edge of the sidetone waveform to get rid of the
> click should be a simple matter.
>
> Apologies for the invasion in your group Steve, but I don't like to see
> what looks like misinformation being spread. I was sorely tempted to buy
> one of your MTR's but I have so many projects here (non-ham ones in
> particular) and only so many hours in the day!
>
> Dave
> AA7EE
>

10580. Re: [AT_Sprint] Subject redirection - need advice (?)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 01:46:25 UTC
From: Gil WA5YKK
Topic: 10580 Message: 10580

OM's,

Pardon my wind change (again), I'm on the hunt for a really good speaker(s) for my QTH, got one at AES in my sights, then all but happened to encounter the Cambridge Soundworks models. They all seem to be in the fist-sized size range, and the ones that are made for amplifiers can handle a minimum of 25 watts, give you 150 Hz to 20K Hz range of hearing. Everything is expensive, yet I've tried many brands and models, never have found a "one size fits all" for mobile and QTH use. With the British made models, I can add to them for a computer-controlled music system that will also handle my different rigs that will respond to control programs, this will be fine for both QTH setups.

Any ideas on this, or should I start calling the ham radio outlets and take up "tech time"? The only problem with a dedicated "rig speaker" is that it;s not transportable to a music system, and even I can run out of space for my toys.

Tnx, 73's, spring is here, the Spring Break insanity and drunken madness is gone for the year!

Gil WA5YKK

10581. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 02:35:46 UTC
From: jgaffke
Topic: 8679 Message: 10581

Steve,

You're right. I managed to express my doubts in my last post,
but my opening was perhaps a bit too upbeat.

Amplitude Modulation is generally credited to Fessenden.
I don't think he used logic gates for drive though.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
> Sorry, but that does NOT shape the transmitted wave form.

> The only way to properly shape the output signal with that topology is to
> ramp the PA supply voltage up and down as I do in all the ATS rigs. I
> invented that transmitter circuit 10 years ago.
>
> At 2-3 watts, it really isn't a big deal to have key click supression or
> not, but the signal will have a narrower bandwidth and sound a little better
> at distance if it does. I opted to add the extra parts to do it right.
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> As for the sidetone click, he has a lot of filtering on it already, I
> suspect it has more to do with the muting circuit than anything else. Been
> down that road a few times.
>
> Steve KD1JV
>
> >
> > Gentlemen - shaping of the transmitted waveform in the CC1 is provided by
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> >
> > Apologies for the invasion in your group Steve, but I don't like to see
> > what looks like misinformation being spread. I was sorely tempted to buy
> > one of your MTR's but I have so many projects here (non-ham ones in
> > particular) and only so many hours in the day!
> >
> > Dave
> > AA7EE
> >
>

10582. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 04:35:30 UTC
From: Steven Weber
Topic: 8679 Message: 10582

I was refering to the logic gate driven Mosfet for a transmitter. Tranistor
CW transmitters have been using the keyed supply votlage with a 5 ms rise
and fall time since pretty much the beginning.

Steve KD1JV

>
> Amplitude Modulation is generally credited to Fessenden.
> I don't think he used logic gates for drive though.
>
> Jerry, KE7ER

10583. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 06:41:00 UTC
From: jgaffke
Topic: 8679 Message: 10583

I understand, mostly just an attempt at humor.
Like I said when the CC1 first came up, the influence of your
rigs is clear. Most published designs are a cut and paste
of familiar circuits, that CC1 perhaps a bit less so.
In particular, I hadn't seen that keyclick filter scheme before.
Though I'm being a bit snide there, I sincerely think he's
to be commended for trying.

The low side FET drivers for switching power supplies
and class D amps are getting into HF speeds.
I wonder if they might replace the 74AC and the FET both on
the lower bands. Here's a few, some cost around a dollar.
http://www.ixysic.com/Products/IGBT-MOSFETDvr.htm

I vaguely recall an entire QRP transceiver using only 7404
inverters, each biased into the transition region with a bit
of feedback so they could be used as amplifiers.
Probably a Ham Radio article in the late 70's.
Anybody remember? I don't think it worked very well.
The amazing thing is that it worked at all.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
> I was refering to the logic gate driven Mosfet for a transmitter.
> Tranistor CW transmitters have been using the keyed supply
> votlage with a 5 ms rise and fall time since pretty much
> the beginning.

10584. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 13:45:54 UTC
From: nicehouse101@...
Topic: 8679 Message: 10584

Steve I have a question.
To make the ATS rigs work on lets say 160 to 10 meters what is it that states what frequency you can make the transceiver work at?
Is it a design thing? Or is it the cost of a part or parts? Or both?
Just wondering..... I am just getting back into electronics.
And another thing. I just want to tell you thank you for the wonderfull work you do.
I have a 3A, 3B and a 4 great back pack rigs for trips.
But one other thing. Lets say you are a person with very little room like someone that rents just a room or is in a retirement home. Or a older person that lives with their family. A great rig for them.Not everyone has the room for a K3 with all the bells (Lets keep the code alive)
That said..... build a 160-10 meter rig .....LOL (I herd that :)) HI HI 73

From: Steven Weber <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Saturday, March 23, 2013 9:35 PM
Subject: Re: [AT_Sprint] Re: nits and hacks

I was refering to the logic gate driven Mosfet for a transmitter. Tranistor
CW transmitters have been using the keyed supply votlage with a 5 ms rise
and fall time since pretty much the beginning.

Steve KD1JV

>
> Amplitude Modulation is generally credited to Fessenden.
> I don't think he used logic gates for drive though.
>
> Jerry, KE7ER

10585. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 15:31:49 UTC
From: jgaffke
Topic: 8679 Message: 10585

--- In AT_Sprint@yahoogroups.com, nicehouse101@... wrote:
> To make the ATS rigs work on lets say 160 to 10 meters ...

Steve's explained the absence of the upper bands in older posts.
Higher frequencies require a faster oscillator into the DDS
which increases current consumption on all bands.
You could scale the caps and coils to 160 meters, though most
wouldn't find much reason to use that band in a trail rig.
But worth asking him to consider it, he's built lots of different
kinds of rigs.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" wrote:
> The only way to properly shape the output signal with that
> topology is to ramp the PA supply voltage ...

Could modulate the duty cycle. He already has a comparator
with a sine wave on it up front. Maybe no comparator needed,
just vary the DC bias of a sine wave into the gate.

Jerry, KE7ER

10586. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 16:17:56 UTC
From: jgaffke
Topic: 8679 Message: 10586

Scratch that, it's used as an amp.
Didn't have the schematics in front of me when posting.
But the duty cycle thing still holds.

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> He already has a comparator with a sine wave on it up front.

10587. Preparing for my new MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 18:32:24 UTC
From: Keith Hamilton
Topic: 10587 Message: 10587

I am in the process of preparing myself to assemble my new MTR kit when it arrives. I plan to do the warming griddle/heat gun technique.

Warming tray..... check
Heat gun with low setting..... check
Solder paste..... check

Also purchased a couple of small projects from Hendricks for practice.

SMD dummy load..... check
SMK-2 ..... check

I was wondering if I got the right solder paste. What do you guys recommend?

I will let the group know how I do!

73 Keith N8CEP

10588. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 18:38:37 UTC
From: Dave AA7EE
Topic: 8679 Message: 10588

Thanks for the reply Steve. I am quite a good builder, but circuit design is something about which I know little, so I'll stand back at this point. I apologize if my tone was too overly-confident before.

Dave
AA7EE

>Sorry, but that does NOT shape the transmitted wave form. It simply shifts the turn on/turn off time of the gate a little. If you sync a scope to the keying line and look at the output signal, it will simply turn on and off a few milliseconds after the key is closed or opened. Those two parts could be eliminated with zero effect on the output signal.

The only way to properly shape the output signal with that topology is to ramp the PA supply voltage up and down as I do in all the ATS rigs. I invented that transmitter circuit 10 years ago.

At 2-3 watts, it really isn't a big deal to have key click supression or not, but the signal will have a narrower bandwidth and sound a little better at distance if it does. I opted to add the extra parts to do it right.

As for the sidetone click, he has a lot of filtering on it already, I suspect it has more to do with the muting circuit than anything else. Been down that road a few times.

Steve KD1JV

10589. Re: MTR SOLD OUT! no more orders please!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 12:37:38 UTC
From: Klaus-Peter
Topic: 10484 Message: 10589

I´ve watched out for the kit over several months - now I didn´t care for one day ...
How unfortunate for me !

73, Klaus-Peter, DJ4DI

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Once again, that didn't take long. I really wish I could offer an infinate number of these, but then they would no longer be special, eh?
>
> Thanks for all the interest and orders!!
>
> 72, Steve KD1JV
>

10590. Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 17:52:58 UTC
From: Gil
Topic: 10590 Message: 10590

Hello,

The thread on batteries really got me thingking and searching for a solar solution for my upcoming MTR.. I am thinking of using a 13W flexible solar panel and eight 1.2V NiMH cells for a total of 9.6V.
What would you put between the solar panel and the battery pack?
Circuit or device suggestions?
I have a SunGuard SG-4 and CirKits SCC3 charge controllers but those are 12V output.

Thanks,

Gil.

10591. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 19:50:38 UTC
From: Hank Greeb
Topic: 8679 Message: 10591

The rigs would work on 160 meters. There's some complication with having a wide enough passband on the passband filter, and also problems with front end overloading if you live near a 50,000 watt Broadcast Station. Steve, KD1JV, could lettuce no more about that. I suppose you'd have to "tell" the microprocessor which runs the VFO to ascertain that it should generate 1.8 - 2.0 MHz signal, but that's just software.

For "trail" radios, 160 meters isn't very popular, because of the difficulty of getting an effective antenna out of the trail for that band.

For 10 metres there is a "problem" with the frequencies at which the microprocessor runs. A higher frequency processor takes more current, and in a trail radio current consumption is a concern. With the current processor, 15 meters is the highest band possible.

Hope this answers your questions.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/24/2013 9:45 AM, nicehouse101@... wrote:
>
>
> Steve I have a question.
> To make the ATS rigs work on lets say 160 to 10 meters what is it that
> states what frequency you can make the transceiever work at?
> Is it a design thing? Or is it the cost of a part or parts? Or both?
> Just wondering..... I am just getting back into electronics.
> And another thing. I just want to tell you thank you for the
> wonderfull work you do.
> I have a 3A, 3B and a 4 great back pack rigs for trips.
> But one other thing. Lets say you are a person with very little room
> like someone that rents just a room or is in a retirement home. Or a
> older person that lives with their family. A great rig for them.Not
> everyone has the room for a K3 with all the bells (Lets keep the code
> alive)
> That said..... build a 160-10 meter rig .....LOL (I herd that :))
> HI HI 73
>
> *From:* Steven Weber <steve.kd1jv@...>
> *To:* AT_Sprint@yahoogroups.com
> *Sent:* Saturday, March 23, 2013 9:35 PM
> *Subject:* Re: [AT_Sprint] Re: nits and hacks
> I was refering to the logic gate driven Mosfet for a transmitter.
> Tranistor
> CW transmitters have been using the keyed supply votlage with a 5 ms rise

> and fall time since pretty much the beginning.
>
> Steve KD1JV
>
> >
> > Amplitude Modulation is generally credited to Fessenden.
> > I don't think he used logic gates for drive though.
> >
> > Jerry, KE7ER
>
>
>
>

10592. Warmer plate question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-24 22:54:51 UTC
From: N1EU
Topic: 10592 Message: 10592

I'd appreciate recommendations for a warmer plate that works well for SMD soldering (together with an embossing gun, which I do have).

Is it possible to use a cast iron pan on an electric stove at the lowest setting instead of a warmer plate, assuming an IR thermometer confirms temperature 200-250deg?

Thanks & 72,
Barry N1EU

10593. Re: [AT_Sprint] Warmer plate question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 00:07:44 UTC
From: WA0ITP
Topic: 10592 Message: 10593

Sure! I use an electric skillet.

I love this radio stuff !
72 WA?ITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "N1EU" <n1eu.barry@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Sunday, March 24, 2013 5:54 PM
Subject: [AT_Sprint] Warmer plate question

| I'd appreciate recommendations for a warmer plate that works well for SMD
soldering (together with an embossing gun, which I do have).
|
| Is it possible to use a cast iron pan on an electric stove at the lowest
setting instead of a warmer plate, assuming an IR thermometer confirms
temperature 200-250deg?
|
| Thanks & 72,
| Barry N1EU
|
|
|
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| Yahoo! Groups Links
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10594. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 00:27:51 UTC
From: nicehouse101@...
Topic: 8679 Message: 10594

Yes I understand this. It is a trail radio so on and so forth.
But I was just thinking.... lol how many years will I be able to go up that trail.
Im getting old... so the YL tells me.
And on the 10 meter band would the curent draw be the same on all the other bands and just be higher on the ten meter band?
We all have our gifts. And electronics is not one of mine at the moment. but working at it.
I am just getting back into Ham Radio After 23 years of Navy service.
I was part of a new crew on a brand new ship.
I set up the MARS if I have that spelled correct radio room on my ship spending as much money I could have of the tax payers money on two signal one rigs with all the bells.
I think I spent $25,000 on all the toys
When I got finished putting it in the captain said so more radio room boys. Its gulf war time.
73

From: Hank Greeb <n8xx@...>
To: AT_Sprint@yahoogroups.com
Sent: Sunday, March 24, 2013 12:50 PM
Subject: Re: [AT_Sprint] Re: nits and hacks

The rigs would work on 160 meters. There's some complication with having a wide enough passband on the passband filter, and also problems with front end overloading if you live near a 50,000 watt Broadcast Station. Steve, KD1JV, could lettuce no more about that. I suppose you'd have to "tell" the microprocessor which runs the VFO to ascertain that it should generate 1.8 - 2.0 MHz signal, but that's just software.

For "trail" radios, 160 meters isn't very popular, because of the difficulty of getting an effective antenna out of the trail for that band.

For 10 metres there is a "problem" with the frequencies at which the microprocessor runs. A higher frequency processor takes more current, and in a trail radio current consumption is a concern. With the current processor, 15 meters is the highest band possible.

Hope this answers your questions.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/24/2013 9:45 AM, nicehouse101@... wrote:

Steve I have a question.
>To make the ATS rigs work on lets say 160 to 10 meters what is it that states what frequency you can make the transceiever work at?
>Is it a design thing? Or is it the cost of a part or parts? Or both?
>Just wondering..... I am just getting back into electronics.
>And another thing. I just want to tell you thank you for the wonderfull work you do.

>I have a 3A, 3B and a 4 great back pack rigs for trips.
>But one other thing. Lets say you are a person with very little room like someone that rents just a room or is in a retirement home. Or a older person that lives with their family. A great rig for them.Not everyone has the room for a K3 with all the bells (Lets keep the code alive)
>That said..... build a 160-10 meter rig .....LOL (I herd that :)) HI HI 73
>
>
>From: Steven Weber mailto:steve.kd1jv@...
>To: AT_Sprint@yahoogroups.com
>Sent: Saturday, March 23, 2013 9:35 PM
>Subject: Re: [AT_Sprint] Re: nits and hacks
>
>
>I was refering to the logic gate driven Mosfet for a transmitter. Tranistor CW transmitters have been using the keyed supply votlage with a 5 ms rise and fall time since pretty much the beginning.Steve KD1JV>> Amplitude Modulation is generally credited to Fessenden.> I don't think he used logic gates for drive though.>> Jerry, KE7ER

10595. Re: [AT_Sprint] Warmer plate question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 00:30:17 UTC
From: Steven Weber
Topic: 10592 Message: 10595

> Is it possible to use a cast iron pan on an electric stove at the lowest
> setting instead of a warmer plate, assuming an IR thermometer confirms
> temperature 200-250deg?

That might be a bit risky. I bought an electric griddle at walmart for $15 one Christmass which does the trick, though it can hold a dozen boards at a time :) It's almost yard sale time and one can often find electric griddles or frying pans there. And don't forget the thrift stores. It shouldn't be hard to turn one up for $5.00.

Steve KD1JV

10596. Re: [AT_Sprint] Warmer plate question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 00:33:43 UTC
From: Johnny Matlock
Topic: 10592 Message: 10596

Ge Barry
I use the chepest electric skillet from Wally World that I could find.
Works great!
Good Luck
Good Building.
72
Johnny AC0BQ

On Sun, Mar 24, 2013 at 7:07 PM, WA0ITP <wa0itp@...> wrote:

> **
>
>
> Sure! I use an electric skillet.
>
> ----------
> I love this radio stuff !
> 72 WAØITP
> www.wa0itp.com
> www.4sqrp.com
> www.qrpspots.com
>
> ----- Original Message -----
> From: "N1EU" <n1eu.barry@...>
> To: <AT_Sprint@yahoogroups.com>
> Sent: Sunday, March 24, 2013 5:54 PM
> Subject: [AT_Sprint] Warmer plate question
>
> | I'd appreciate recommendations for a warmer plate that works well for
> SMD
> soldering (together with an embossing gun, which I do have).
> |
> | Is it possible to use a cast iron pan on an electric stove at the lowest
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> temperature 200-250deg?
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> | Thanks & 72,
> | Barry N1EU
> |
> |
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> | Yahoo! Groups Links
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10597. RE: [AT_Sprint] Warmer plate question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 00:37:30 UTC
From: Dale Putnam
Topic: 10592 Message: 10597

I use a cup warmer just about the right size to hold the board, and the perfect heat.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: jomatlock@...
Date: Sun, 24 Mar 2013 19:33:43 -0500
Subject: Re: [AT_Sprint] Warmer plate question

Ge Barry
I use the chepest electric skillet from Wally World that I could find.
Works great!
Good Luck
Good Building.
72
Johnny AC0BQ

On Sun, Mar 24, 2013 at 7:07 PM, WA0ITP <wa0itp@...> wrote:

Sure! I use an electric skillet.

I love this radio stuff !

72 WAØITP

www.wa0itp.com

www.4sqrp.com

www.qrpspots.com

----- Original Message -----

From: "N1EU" <n1eu.barry@gmail.com>

To: <AT_Sprint@yahoogroups.com>

Sent: Sunday, March 24, 2013 5:54 PM

Subject: [AT_Sprint] Warmer plate question

| I'd appreciate recommendations for a warmer plate that works well for SMD

soldering (together with an embossing gun, which I do have).

|

| Is it possible to use a cast iron pan on an electric stove at the lowest setting instead of a warmer plate, assuming an IR thermometer confirms temperature 200-250deg?

|

| Thanks & 72,

| Barry N1EU

|

|

|

| ----------

|

| Yahoo! Groups Links

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10598. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 00:44:04 UTC
From: Hank Greeb
Topic: 8679 Message: 10598

Well, if I were looking for a good radio to use at home, and on outings like I do, which involvetaking the rig, antenna, and power supply in my van out to a park, where I can sit under a picnic shelter and operate rain or shine, I'd choose either an Elecraft K2 or (if I strike it a bit richer) an Elecraft KX3. The K2 was originally designed and built in the early 1990's, yet it still is being sold. I've used one of them with the 100 watt amp (built in), for several field days, and it works great. It can be had for Between $500 and $800, depending on what bellzandwhistles are inside. The KX3 can be had, bare bones, for around $900, fully loaded probably around $1500 (I haven't priced a "fully loaded" version.

The K2 "bare" runs 10 watts out max, the KX3 runs 15 watts out max. The KX3 is very near the "top of the line" for most receiving specs, and, by now, most of the "bugs" have been worked out of the firmware.

72/73 de n8xx Hg

p.s. I'd love to have a peek at the $25,000 MARS station! :)
p.p.s. I've been around a bit more than 3/4 of a century, been a ham for 61+ years and hope to be pounding brass with my left foot a few more years. :)

On 3/24/2013 8:27 PM, nicehouse101@... wrote:
>
>
> Yes I understand this. It is a trail radio so on and so forth.
> But I was just thinking.... lol how many years will I be able to go up
> that trail.
> Im getting old... so the YL tells me.
> And on the 10 meter band would the curent draw be the same on all the
> other bands and just be higher on the ten meter band?
> We all have our gifts. And electronics is not one of mine at the
> moment. but working at it.
> I am just getting back into Ham Radio After 23 years of Navy service.
> I was part of a new crew on a brand new ship.
> I set up the MARS if I have that spelled correct radio room on my ship
> spending as much money I could have of the tax payers money on two
> signal one rigs with all the bells.
> I think I spent $25,000 on all the toys
> When I got finished putting it in the captain said so more radio room
> boys. Its gulf war time.
> 73

10599. RE: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 01:29:22 UTC
From: Mike Olbrisch
Topic: 8679 Message: 10599

If you want something SMALL, light of WEIGHT, and one that does EVERYTHING from DC to Daylight, there is really only one choice.

The Yaesu FT-817.

Some come close, but just fall short by >< that much!

5 watts, all mode, 160m through 70cm (except 220). Power levels at 0.5w, 1w, 2.5w and 5 watts. Typically 325 to 380 MAH receive, depending on how you set it up. Up to 1900 MAH on 5-watt FM transmit.

V/UHF contests are a BLAST when you can carry your station 3000 feet above the average terrain. Do that in a rare grid, and better tale extra log sheets along!

The bigger brother FT-857 and FT-897 run the same bands, but at a higher cost in battery use, both TX and RX.

If you are willing to give up a few bands - there are a few other radios that can then join the list. If you are willing to go with CW only, there are a ton of radios on the list. But there is only one DC-Daylight radio right now.

I understand Gulf War. I was AEM3WT in Al Khobar, until I had to abandon my station to go north into Iraq. At least you got to keep your shack near you, unless the Captain made you-all toss it overboard. <grin>.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of nicehouse101@yahoo.com
Sent: Sunday, March 24, 2013 18:28
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: nits and hacks

Yes I understand this. It is a trail radio so on and so forth.
But I was just thinking.... lol how many years will I be able to go up that trail.
Im getting old... so the YL tells me.
And on the 10 meter band would the curent draw be the same on all the other bands and just be higher on the ten meter band?
We all have our gifts. And electronics is not one of mine at the moment. but working at it.
I am just getting back into Ham Radio After 23 years of Navy service.
I was part of a new crew on a brand new ship.
I set up the MARS if I have that spelled correct radio room on my ship spending as much money I could have of the tax payers money on two signal one rigs with all the bells.
I think I spent $25,000 on all the toys

When I got finished putting it in the captain said so more radio room boys. Its gulf war time.
73

From: Hank Greeb <n8xx@...>
To: AT_Sprint@yahoogroups.com
Sent: Sunday, March 24, 2013 12:50 PM
Subject: Re: [AT_Sprint] Re: nits and hacks

The rigs would work on 160 meters. There's some complication with having a wide enough passband on the passband filter, and also problems with front end overloading if you live near a 50,000 watt Broadcast Station. Steve, KD1JV, could lettuce no more about that. I suppose you'd have to "tell" the microprocessor which runs the VFO to ascertain that it should generate 1.8 - 2.0 MHz signal, but that's just software.

For "trail" radios, 160 meters isn't very popular, because of the difficulty of getting an effective antenna out of the trail for that band.

For 10 metres there is a "problem" with the frequencies at which the microprocessor runs. A higher frequency processor takes more current, and in a trail radio current consumption is a concern. With the current processor, 15 meters is the highest band possible.

Hope this answers your questions.

72/73 de n8xx Hg
QRP >99.44% of the time
On 3/24/2013 9:45 AM, nicehouse101@... wrote:
Steve I have a question.
To make the ATS rigs work on lets say 160 to 10 meters what is it that states what frequency you can make the transceiever work at?
Is it a design thing? Or is it the cost of a part or parts? Or both?
Just wondering..... I am just getting back into electronics.
And another thing. I just want to tell you thank you for the wonderfull work you do.
I have a 3A, 3B and a 4 great back pack rigs for trips.
But one other thing. Lets say you are a person with very little room like someone that rents just a room or is in a retirement home. Or a older person that lives with their family. A great rig for them.Not everyone has the room for a K3 with all the bells (Lets keep the code alive)
That said..... build a 160-10 meter rig .....LOL (I herd that :)) HI HI 73

From: Steven Weber mailto:steve.kd1jv@...
To: AT_Sprint@yahoogroups.com
Sent: Saturday, March 23, 2013 9:35 PM
Subject: Re: [AT_Sprint] Re: nits and hacks

I was refering to the logic gate driven Mosfet for a transmitter. Tranistor CW transmitters have been using the keyed supply votlage with a 5 ms rise and fall time since pretty much the beginning.Steve KD1JV>> Amplitude Modulation is generally credited to Fessenden.> I don't think he used logic gates for drive though.>> Jerry, KE7ER

10600. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 02:00:20 UTC
From: Steven Weber
Topic: 8679 Message: 10600

Well, it wouldn't hurt my feeling if you bought another type of rig which more closely matched your needs. I understand that only a few use my rigs for thier intended purpose of operating on top of a mountain or out in the woods. Most buy it because it's so darn cute or they like the challenge of building it.

But that's a good thing as that demand makes it possible to produce the rig in the first place so those who do want to carry it long distances or up steep mountains have a rig which they can.

As for operation on 10 meters, there are a few issues. One is current draw. The DDS clock frequency would have to nearly double to at least 75 MHz, which would likely add 50 ma to the base current the rig draws on all bands.

The second issue is my very simple transmitter becomes very touchy at 28 MHz. At 21 it's a little marginal, but workable. 28 is pushing it a bit too close to it's limits.

Thirdly, 10 meters has been pretty much a dead band these days. It never did come alive this sun spot cycle and the next one doesn't look very promising either. Hardly worth the effort or expense to do something for this band.

At the other end of the spectrum, 160 M, there isn't any real technical issues, although the comparitor in the DDS chip used to produce the square waves for the transmitter isn't suppost to work below 3 MHz, however it does. The real issue is one of the physical size of the coils needed in the output filter. The smallest core which will work is a T50 and thats too big for a hand held radio. Even 80 Meters is a difficult band for many to use due the size of the antenna needed. It's twice as bad on 160 so offering that band for a just a hand full of guys isn't worth the effort.

73, Steve KD1JV
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I think I spent $25,000 on all the toys
When I got finished putting it in the captain said so more radio room boys. Its gulf war time.
73

10601. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 02:25:55 UTC
From: Hank Greeb
Topic: 8679 Message: 10601

Hi Steve:

Nice response. I figured I remembered your comments correctly from past inquiries.

But, I'm still waiting for that 160/80 meter Direct Conversion rig about which you teased us about a year ago. :) I know you said you ran into a couple of difficulties, but untilyou say it's completely off the "to contemplate" list, I'll wait on pinzandneedles. :)

72/73 de n8xx Hg
QRP >99.44% of the time

p.s. And, I know you never figured any of your rigs would show up on a "full blown" contest, but we're all surprised how well they did in the NAQP CW!

On 3/24/2013 10:00 PM, Steven Weber wrote:
> ☐
> Well, it wouldn't hurt my feeling if you bought another type of rig
> which more closely matched your needs. I understand that only a few
> use my rigs for thier intended purpose of operating on top of a
> mountain or out in the woods. Most buy it because it's so darn cute or
> they like the challenge of building it.
> But that's a good thing as that demand makes it possible to produce
> the rig in the first place so those who do want to carry it long
> distances or up steep mountains have a rig which they can.
> As for operation on 10 meters, there are a few issues. One is current
> draw. The DDS clock frequency would have to nearly double to at least
> 75 MHz, which would likely add 50 ma to the base current the rig draws
> on all bands.
> The second issue is my very simple transmitter becomes very touchy at
> 28 MHz. At 21 it's a little marginal, but workable. 28 is pushing it a
> bit too close to it's limits.
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> very promising either. Hardly worth the effort or expense to do
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> produce the square waves for the transmitter isn't suppost to work
> below 3 MHz, however it does. The real issue is one of the physical
> size of the coils needed in the output filter. The smallest core which
> will work is a T50 and thats too big for a hand held radio. Even 80
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> needed. It's twice as bad on 160 so offering that band for a just a
> hand full of guys isn't worth the effort.
> 73, Steve KD1JV
>
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> the other bands and just be higher on the ten meter band?
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> I am just getting back into Ham Radio After 23 years of Navy service.
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> on two signal one rigs with all the bells.
> I think I spent $25,000 on all the toys
> When I got finished putting it in the captain said so more radio
> room boys. Its gulf war time.
> 73
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10602. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 02:33:47 UTC
From: luke_308
Topic: 10590 Message: 10602

Here's an option I recently came across. It's a miniature switching voltage regulator rated to 3 Amps. I have not yet tested one to check for RFI but plan on doing so in the next week or two. http://www.dimensionengineering.com/products/de-swadj3

I have a Goal Zero 13 solar panel and was told by Goal Zero directly that it's Chain-In port was regulated to 15v max but in fact it puts out close to 21v. I think I'll try the SWADJ3 to bring it down to more radio friendly voltages!

Luke
KD0FIN

10603. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 02:49:09 UTC
From: nicehouse101@...
Topic: 8679 Message: 10603

Thanks for the reply steve.... We are all learning as we go along.
And I do have 3 of your rigs. (I love them) I want more!!!!!!
And as for the PS .... I think it was from hank on the mars station.
Was very easy to spend $25,000. Everything has to have a mil spec onboard the ship.
You know a hammer costs $200.
What is realy sad is when you need to move a light socket.
The cost is 1 mil, all becouse all the paper work for the whole ship must be changed for everyone everywhere Shipyard and all the way up to the pope. 73

From: Steven Weber <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Sunday, March 24, 2013 7:00 PM
Subject: Re: [AT_Sprint] Re: nits and hacks

□
Well, it wouldn't hurt my feeling if you bought another type of rig which more closely matched your needs. I understand that only a few use my rigs for thier intended purpose of operating on top of a mountain or out in the woods. Most buy it because it's so darn cute or they like the challenge of building it.

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>I think I spent $25,000 on all the toys
>When I got finished putting it in the captain said so more radio room boys. Its gulf war time.
>73
>
>

10604. Re: Warmer plate question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 02:54:48 UTC
From: radio_kx0r
Topic: 10592 Message: 10604

Dale,

Thanks for that one - I used a similar miniature heat plate called a candle warmer - I found it at Hobby Lobby. They are sold for use with fragrant candles.

I ended up running it on a small variac set to about 140VAC to boost it up a little - I found that when water drops bounced around boiling on it, it was just right. I supported the pcb on a few pennies, so the SMT parts on the underside of the PCB touch nothing.

Whatever you use, don't let the heat get any hotter than what it takes to make little water drops bounce around as they start to boil. If they just sit there, it's not hot enough. If they boil away instantly, it's way too hot. Remember this is just a pre-heater - so you can keep your small hot air tool at a distance and avoid problems from excess heat or airflow.

I also got my embossing tool (low flow hot air tool) at the same store. Guess I got lucky, because I had no problem with SMT parts moving.

What Dale says about taking your time and going slow is the big secret.

When I built my MTR I chickened out and built it with my Weller WTCP Z-series. The hot air does a prettier job if you're good.

George
KX0R

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
> I use a cup warmer just about the right size to hold the board, and the perfect heat.
>
> Have a great day,
>
>
> --... ...--
> Dale - WC7S in Wy
>
>
>
> To: AT_Sprint@yahoogroups.com
> From: jomatlock@...
> Date: Sun, 24 Mar 2013 19:33:43 -0500
> Subject: Re: [AT_Sprint] Warmer plate question
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> Ge Barry
> I use the chepest electric skillet from Wally World that I could find.
> Works great!
> Good Luck
> Good Building.
> 72
> Johnny AC0BQ
>
> On Sun, Mar 24, 2013 at 7:07 PM, WA0ITP <wa0itp@...> wrote:
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> Sure! I use an electric skillet.
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> ----------
>
> I love this radio stuff !
>
> 72 WAØITP
>
> www.wa0itp.com
>
> www.4sqrp.com
>
> www.qrpspots.com
>
>
>
> ----- Original Message -----
>
> From: "N1EU" <n1eu.barry@...>
>
> To: <AT_Sprint@yahoogroups.com>
>
> Sent: Sunday, March 24, 2013 5:54 PM
>
> Subject: [AT_Sprint] Warmer plate question
>
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>
> | I'd appreciate recommendations for a warmer plate that works well for SMD
>
> soldering (together with an embossing gun, which I do have).
>
> |
>
> | Is it possible to use a cast iron pan on an electric stove at the lowest
>
> setting instead of a warmer plate, assuming an IR thermometer confirms
>
> temperature 200-250deg?
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>
> | Thanks & 72,

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>
> | Barry N1EU
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> | Yahoo! Groups Links
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10605. Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 03:16:35 UTC
From: radio_kx0r
Topic: 8679 Message: 10605

Mike,

I actually have an FT-817. It contains an array of amazing technology in one compact package, and it's fun to use. It's incredibly versatile.

However, for backpacking or extended hiking/mountain climbs/etc., carrying that radio and a suitable battery would be like carrying two bricks.

The ATS rigs receive on close to 1/10 the current, they transmit 5W with about 1/3 the current, and they are much smaller and easier to use on CW.
The ATS receiver is better for CW even without a knob, because there is less noise.

On the air they both sound nice.

They're both wonderful radios - depends on what you're doing that day!

I know which one I'll use for the Bumblebees...

George
KX0R

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
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> The Yaesu FT-817.
>
> Some come close, but just fall short by >< that much!
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>
>
>
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> To: AT_Sprint@yahoogroups.com
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> To: AT_Sprint@yahoogroups.com
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> 72/73 de n8xx Hg
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10606. Re: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 03:43:49 UTC
From: Hank Greeb
Topic: 8679 Message: 10606

I'llbe using the AT-Sprint original version, which works grrrrr8!
Nameplate says it was made in 2003, and it still works like a charm!

I do need to get my AT-Sprint 3b put togetherone of these years, and am anxiously awaiting the arrival of the MTR, so I can get on 80 meters with one of Steve's rigs.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/24/2013 11:16 PM, radio_kx0r wrote:
> Mike,
>
> I actually have an FT-817. It contains an array of amazing technology in one compact package, and it's fun to use. It's incredibly versatile.
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> On the air they both sound nice.
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> They're both wonderful radios - depends on what you're doing that day!
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> I know which one I'll use for the Bumblebees...
>
> George
> KX0R

10607. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 03:45:22 UTC
From: radio_kx0r
Topic: 10521 Message: 10607

Bruce,

Ditto here.

For those who wonder about this question, I started using 3 18650 lithium ion cells when I got my ATS-3A running, and I don't think I'll ever move away from 3S Li Ion or LIPO.

You wouldn't run a notebook computer on a bunch of one-way AA's, so why would you run a portable radio that way?

My battery is about 2200 maH, and I've never come close to getting low on a 3-day backpack trip with hours of operating. 2200 maH is overkill for day trips, sprints, or SOTA-style operating. 1000 maH is plenty.

These rigs can handle the 12.6V of three fully charged lithium cells IF the RF load is very close to 50 ohms. Use a tuner with an LED bridge, tune up on low voltage - I use a dropping resistor, and always match to 50 ohms. Resonance of the antenna is not really relevant, as long as you match it to 50 ohms with a tuner.

It's educational to watch the DC current draw from an ATS rig on the bench as you adjust the match with a tuner. Moderate changes in the load match can cause the DC current to vary considerably. If you don't plan to use a tuner and adjust for a good match every time, I'd suggest running on no more than 9 or 10 volts.

George
KX0R

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
>
> I've been using 3S LiPos for years on all the ATS series, never a problem. I've also used it on an MTR without issue. While that may not be "definitive", it is mine (and others) experience.
>
> 72,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, PHILIP GRAITCER <pgraitc@> wrote:
> >
> > It would be nice to have a definitive answer whether or not a fully charged 3S LiPO battery produces too much voltage for the MTR or ATS.
> >
> > My thought is with a load, the voltage for 3S LiPOs will not be much above 12V for long. I've always thought that Steve's caution about using more than 12 volts meant don't use a bench supply since it would produce a voltage that would be at 13.6 and never drop.
> >
> > I've been using 3S LiPOs and chargers purchased from Hobby King to run most of my /p rigs, including the KX1 and the Weber line. I try to use resonant antennas along with a

tuner - either an Elecraft T1 or a SOTA type EFHW tuner.
> >
> > I've always liked this article on batteries:
> > http://www.rchelicopterfun.com/rc-lipo-batteries.html
> >
> >
> > Phil, W3HZZ
> >
>

10608. RE: [AT_Sprint] Re: nits and hacks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 03:48:50 UTC
From: Mike Olbrisch
Topic: 8679 Message: 10608

Agreed - as I clearly stated. If you are willing to put limits to it, there are any number of great radios that can go on that list. But only 1 does all mode 160m-70cm.

You can toss your big battery, put in one of the 3600 MAH Li-Po batteries, the FT-817 loves it, goes 5+ hours on a single charge. I love it, only way to go with the 817 now.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of radio_kx0r
Sent: Sunday, March 24, 2013 21:17
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: nits and hacks

Mike,

I actually have an FT-817. It contains an array of amazing technology in one compact package, and it's fun to use. It's incredibly versatile.

However, for backpacking or extended hiking/mountain climbs/etc., carrying that radio and a suitable battery would be like carrying two bricks.

The ATS rigs receive on close to 1/10 the current, they transmit 5W with about 1/3 the current, and they are much smaller and easier to use on CW. The ATS receiver is better for CW even without a knob, because there is less noise.

On the air they both sound nice.

They're both wonderful radios - depends on what you're doing that day!

I know which one I'll use for the Bumblebees...

George
KX0R

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> If you want something SMALL, light of WEIGHT, and one that does EVERYTHING from DC to Daylight, there is really only one choice.
>
> The Yaesu FT-817.
>
> Some come close, but just fall short by >< that much!
>

> 5 watts, all mode, 160m through 70cm (except 220). Power levels at 0.5w, 1w, 2.5w and 5 watts. Typically 325 to 380 MAH receive, depending on how you set it up. Up to 1900 MAH on 5-watt FM transmit.
>
> V/UHF contests are a BLAST when you can carry your station 3000 feet above the average terrain. Do that in a rare grid, and better tale extra log sheets along!
>
> The bigger brother FT-857 and FT-897 run the same bands, but at a higher cost in battery use, both TX and RX.
>
> If you are willing to give up a few bands - there are a few other radios that can then join the list. If you are willing to go with CW only, there are a ton of radios on the list. But there is only one DC-Daylight radio right now.
>
> I understand Gulf War. I was AEM3WT in Al Khobar, until I had to abandon my station to go north into Iraq. At least you got to keep your shack near you, unless the Captain made you-all toss it overboard. <grin>.
>
> Vy73 - Mike - KD9KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/
>
>
>
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of nicehouse101@...
> Sent: Sunday, March 24, 2013 18:28
> To: AT_Sprint@yahoogroups.com
> Subject: Re: [AT_Sprint] Re: nits and hacks
>
>
>
>
>
> Yes I understand this. It is a trail radio so on and so forth.
> But I was just thinking.... lol how many years will I be able to go up that trail.
> Im getting old... so the YL tells me.
> And on the 10 meter band would the curent draw be the same on all the other bands and just be higher on the ten meter band?
> We all have our gifts. And electronics is not one of mine at the moment. but working at it.
> I am just getting back into Ham Radio After 23 years of Navy service.
> I was part of a new crew on a brand new ship.
> I set up the MARS if I have that spelled correct radio room on my ship spending as much money I could have of the tax payers money on two signal one rigs with all the bells.

> I think I spent $25,000 on all the toys
> When I got finished putting it in the captain said so more radio room boys. Its gulf war time.
> 73
>
>
> From: Hank Greeb <n8xx@...>
> To: AT_Sprint@yahoogroups.com
> Sent: Sunday, March 24, 2013 12:50 PM
> Subject: Re: [AT_Sprint] Re: nits and hacks
>
> The rigs would work on 160 meters. There's some complication with having a wide enough passband on the passband filter, and also problems with front end overloading if you live near a 50,000 watt Broadcast Station. Steve, KD1JV, could lettuce no more about that. I suppose you'd have to "tell" the microprocessor which runs the VFO to ascertain that it should generate 1.8 - 2.0 MHz signal, but that's just software.
>
> For "trail" radios, 160 meters isn't very popular, because of the difficulty of getting an effective antenna out of the trail for that band.
>
> For 10 metres there is a "problem" with the frequencies at which the microprocessor runs. A higher frequency processor takes more current, and in a trail radio current consumption is a concern. With the current processor, 15 meters is the highest band possible.
>
> Hope this answers your questions.
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
> On 3/24/2013 9:45 AM, nicehouse101@... wrote:
> Steve I have a question.
> To make the ATS rigs work on lets say 160 to 10 meters what is it that states what frequency you can make the transceiever work at?
> Is it a design thing? Or is it the cost of a part or parts? Or both?
> Just wondering..... I am just getting back into electronics.
> And another thing. I just want to tell you thank you for the wonderfull work you do.
> I have a 3A, 3B and a 4 great back pack rigs for trips.
> But one other thing. Lets say you are a person with very little room like someone that rents just a room or is in a retirement home. Or a older person that lives with their family. A great rig for them.Not everyone has the room for a K3 with all the bells (Lets keep the code alive)
> That said..... build a 160-10 meter rig .....LOL (I herd that :)) HI HI 73
>
> From: Steven Weber mailto:steve.kd1jv@...
> To: AT_Sprint@yahoogroups.com
> Sent: Saturday, March 23, 2013 9:35 PM
> Subject: Re: [AT_Sprint] Re: nits and hacks

>
> I was refering to the logic gate driven Mosfet for a transmitter.
Tranistor CW transmitters have been using the keyed supply votlage with a 5
ms rise and fall time since pretty much the beginning.Steve KD1JV>>
Amplitude Modulation is generally credited to Fessenden.> I don't think he
used logic gates for drive though.>> Jerry, KE7ER
>

Yahoo! Groups Links

10609. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 04:04:08 UTC
From: zigmundrat
Topic: 10590 Message: 10609

I don't know how on-topic the battery discussion is for this group, but I'm going to chime in a last time because I think I can help avoid a lot of disappointment.

When considering solar charging, you have to remember that a solar panel is a dynamic power source. They do not behave anything at all like what you would drive a typical regulator with. Each model of panel has a unique V/I curve where the panel delivers the most power. Solar regulators or 'charge controllers' can follow this curve by a method called Max Power Point Tracking (MPPT). PWM controllers can also achieve respectable efficiency and are often used with small panels, but MPPT is usually considered the 'best'. Another issue is that you need to match the controller to the battery chemistry. You cannot do this with a simple regulator, and it can in fact be dangerous, especially with Lithium chemistries. (Even a small Lithium battery can produce a somewhat impressive amount of fire and smoke, and of course you *dont* put them out with water...) And finally, you also need to match the solar panel with the charge controller. These systems need to be somewhat engineered.

About the only solution for solar charging LiPos that I've seen *actually completed* is this one from Michael Wolf: <http://www.mictronics.de/projects/solar-cell-mppt/ <I don't know how on-topic the battery discussion is for this group, but I'm going to chime in a last time. When considering solar charging, you have to remember that a solar panel is a dynamic power source. They do not behave anything at all like what you would drive a typical regulator with. Each model of panel has a unique V/I curve where the panel delivers the most power. Solar regulators or 'charge controllers' can follow this curve in a way that's call Max Power Point Tracking (MPPT). PWM controllers can also achieve respectable efficiency and are often used with small panels, but MPPT is usually considered the 'best'. The other issue is that you need to match the controller to the battery chemistry. You cannot do this with a simple regulator, and it can in fact be dangerous, especially with Lithium chemistries. Even a small Lithium battery can produce a somewhat impressive amount of fire and smoke, and of course you *dont* put them out with water... The only developed solution for solar charging LiPos that I've seen is this one from Michael Wolf: > > It's based on the Linear LT3652 reference design. This chip (and others like it) have their own requirements and must be setup carefully for their power source and battery in use. And if that's not enough, even when using a solution such as this you still have to consider that Li batteries will need to be balance charged periodically for maximum life and to prevent damage. I'm afraid there's no simple, easy, toss it together solution, although I'd be happy to see

one [:)]

Paul - K9MR

--- In AT_Sprint@...m, "luke_308" <aurich85@...> wrote:
>
> Here's an option I recently came across. It's a miniature switching voltage regulator rated to 3 Amps. I have not yet tested one to check for RFI but plan on doing so in the next week or two.
http://www.dimensionengineering.com/products/de-swadj3
>
> I have a Goal Zero 13 solar panel and was told by Goal Zero directly that it's Chain-In port was regulated to 15v max but in fact it puts out close to 21v. I think I'll try the SWADJ3 to bring it down to more radio friendly voltages!
>
> Luke
> KD0FIN
>

10610. RE: [AT_Sprint] Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 04:13:21 UTC
From: Mike Olbrisch
Topic: 10590 Message: 10610

Interesting!!!

PLEASE - report back on this. I have a 40-watt folding panel, and I was looking for a solution to bringing the voltage down to a lower level for the battery charger. But it needed to be small and elegant, not a big and heavy solution.

I have the sun-guard 4, but it must have a 12-v battery attached to it before connecting the panel. Weird, but true.

Thanks!

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of luke_308
Sent: Sunday, March 24, 2013 20:34
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Solar charging for MTR.

Here's an option I recently came across. It's a miniature switching voltage regulator rated to 3 Amps. I have not yet tested one to check for RFI but plan on doing so in the next week or two.
http://www.dimensionengineering.com/products/de-swadj3

I have a Goal Zero 13 solar panel and was told by Goal Zero directly that it's Chain-In port was regulated to 15v max but in fact it puts out close to 21v. I think I'll try the SWADJ3 to bring it down to more radio friendly voltages!

Luke
KD0FIN

Yahoo! Groups Links

10611. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 05:12:23 UTC
From: jgaffke
Topic: 10590 Message: 10611

Luke,

I assume this is the data sheet for your solar panel:
http://www.goalzero.com/creative/assets/guides/Nomad13.pdf
Looks like they have some electronics inside to regulate to
5 and 12v, and that the "12v" output should be between 13 and 15v
when drawing between 0 and 1 Amp. You measured 21 volts there at
0 amps, perhaps the 12v regulator on yours is faulty?
An open circuit voltage of 21 volts is about right for a raw
panel designed to work with a 12v battery.

For occasional field use with such a small panel, I'd probably
just hook the panel directly to a 12 volt lead acid battery,
perhaps from a motorcycle or riding lawnmower.
Regardless of battery voltage, that 13 Watt panel will only
put out a constant Amp or so, limited by the number of photons
available to free roughly the same number of electrons.
Check the battery occasionally with a voltmeter, or add a
linear voltage regulator set to 14 volts or so, to replace
the one that was supposed to be inside your panel assembly.

As Paul points out, LiPo's can fail catastrophically.
Especially at high charge rates. If one in a stack is failing
with a low voltage, the others will be getting overcharged
unless the charger is sophisticated enough to deal with that.
I have charged stacks of LiPo's with a single carefully set
voltage regulator across the stack, but at a current of C/10.
So a 2 Amp-Hour battery might be charged at 0.2 Amps with
such a simple charger. A much better bet would be a well
designed charger specifically for LiPo's.

Check out the solar panel graph on the left side of page 2:
http://www.sunelec.com/Specs/STP240Wde.pdf
The flat lines show constant current, regardless of load voltage.
The lines that peak show the power available from those
currents and voltages.

The MPPT chargers I'm aware of cost several hundred dollars.
Assuming a maximum power point of 18 volts from the panel,
a linear regulator into a 12v battery would be losing around
100% * (18-12)/18 = 33% of available power. And MPPT's
typically lose 10% or so. And charging voltages are often
14 or 15 volts. So just use a linear voltage regulator.
If it draws too much current for the available sunlight,
the panel voltage will drop until the current is just right.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "luke_308" <aurich85@...> wrote:
> I have a Goal Zero 13 solar panel ... puts out close to 21v.
> I think I'll try the SWADJ3 to bring it down ...

10612. Re: [AT_Sprint] Re: Warmer plate question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 08:19:50 UTC
From: Barry N1EU
Topic: 10592 Message: 10612

On Mon, Mar 25, 2013 at 2:54 AM, radio_kx0r <careyfuller@...> wrote:

> **
>
>
> I supported the pcb on a few pennies, so the SMT parts on the underside
> of the PCB touch nothing.
>
> You use the same warmer temperature whether the pcb is resting right on
the warmer surface or supported above with a few pennies? Seems like you'd
need a higher temp if it was spaced above, but you're saying to use the
same (right around boiling) temp with it spaced above?

Thanks,
Barry N1EU

10613. Re: Batteries for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 11:26:24 UTC
From: n1rx
Topic: 10521 Message: 10613

This is an excellent reminder, George. One that I failed to mention in my post.

Though it has been discussed here several times, there are always those who either weren't here for that discussion, or don't search the archives. It bears repeating. The ATS series and the MTS will handle 12.6V IF, the antenna is well matched at 50 ohms. George uses a resistor in line with the battery while adjusting his antenna matching unit, to limit the radio's current draw. I use a resistive SWR bridge in the tuner, that limits the actual impedance swings that the radio "feels" while tuning. Both accomplish the same thing.

Thanks, George.
73,
Bruce N1RX

--- In AT_Sprint@yahoogroups.com, "radio_kx0r" <careyfuller@...> wrote:
> These rigs can handle the 12.6V of three fully charged lithium cells IF the RF load is very close to 50 ohms. Use a tuner with an LED bridge, tune up on low voltage - I use a dropping resistor, and always match to 50 ohms. Resonance of the antenna is not really relevant, as long as you match it to 50 ohms with a tuner.
>
> It's educational to watch the DC current draw from an ATS rig on the bench as you adjust the match with a tuner. Moderate changes in the load match can cause the DC current to vary considerably. If you don't plan to use a tuner and adjust for a good match every time, I'd suggest running on no more than 9 or 10 volts.
>
> George
> KX0R
>
>
>
> --- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@> wrote:
> >
> > I've been using 3S LiPos for years on all the ATS series, never a problem. I've also used it on an MTR without issue. While that may not be "definitive", it is mine (and others) experience.
> >
> > 72,
> > Bruce, N1RX
> >
> > --- In AT_Sprint@yahoogroups.com, PHILIP GRAITCER <pgraitc@> wrote:
> > >
> > > It would be nice to have a definitive answer whether or not a fully charged 3S LiPO battery produces too much voltage for the MTR or ATS.
> > >
> > > My thought is with a load, the voltage for 3S LiPOs will not be much above 12V for long. I've always thought that Steve's caution about using more than 12 volts meant don't use a bench supply since it would produce a voltage that would be at 13.6 and never drop.

> > >
> > > I've been using 3S LiPOs and chargers purchased from Hobby King to run most of my /p
rigs, including the KX1 and the Weber line. I try to use resonant antennas along with a
tuner - either an Elecraft T1 or a SOTA type EFHW tuner.
> > >
> > > I've always liked this article on batteries:
> > > http://www.rchelicopterfun.com/rc-lipo-batteries.html
> > >
> > >
> > > Phil, W3HZZ
> > >
> >
>

10614. Re: Warmer plate question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 11:34:45 UTC
From: n1rx
Topic: 10592 Message: 10614

Yes, support the board off the plate. This is what allows you to do one side, then the other. Remember, you are only pre-warming the board. The embossing tool does the actual solder melting.
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@...> wrote:
>
> On Mon, Mar 25, 2013 at 2:54 AM, radio_kx0r <careyfuller@...> wrote:
>
> > **
> >
> >
> > I supported the pcb on a few pennies, so the SMT parts on the underside
> > of the PCB touch nothing.
> >
> > You use the same warmer temperature whether the pcb is resting right on
> the warmer surface or supported above with a few pennies? Seems like you'd
> need a higher temp if it was spaced above, but you're saying to use the
> same (right around boiling) temp with it spaced above?
>
> Thanks,
> Barry N1EU
>

10615. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 11:43:42 UTC
From: n1rx
Topic: 10590 Message: 10615

A little misleading, it's only rated for 3 amps at 8v oupt and below. If you want a higher output voltage (and you do), count on only 2 amps or so. Also, it is difficult to predict how regulators like this will behave as the sun goes behind a cloud and then returns, etc. The best way to use a solar panel (IMO) is with a charge controller feeding an external battery, then to the KX3. The solar panel keeps the battery charged, and the battery acts as something of an ouput filter for the panel/charge controller.

I would not connect the output of this (or any solar/switch-mode regulator) directly to the DC input jack of the KX3 without an external battery to stabilize the voltage.

GL,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "luke_308" <aurich85@...> wrote:
>
> Here's an option I recently came across. It's a miniature switching voltage regulator rated to 3 Amps. I have not yet tested one to check for RFI but plan on doing so in the next week or two. http://www.dimensionengineering.com/products/de-swadj3
>
> I have a Goal Zero 13 solar panel and was told by Goal Zero directly that it's Chain-In port was regulated to 15v max but in fact it puts out close to 21v. I think I'll try the SWADJ3 to bring it down to more radio friendly voltages!
>
> Luke
> KD0FIN
>

10616. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 11:54:34 UTC
From: n1rx
Topic: 10590 Message: 10616

Sorry, morning pre-caffeine confusion. I mentioned the KX3, as I was also reading in that group on this topic as well. My advice is also applicable to the ATS rigs. I wouldn't trust the output of the switchmode regulator to be stable enough, without the connectuion to a battery to help stabilize it. Back to the coffee pot!

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
>
> A little misleading, it's only rated for 3 amps at 8v oupt and below. If you want a higher output voltage (and you do), count on only 2 amps or so. Also, it is difficult to predict how regulators like this will behave as the sun goes behind a cloud and then returns, etc. The best way to use a solar panel (IMO) is with a charge controller feeding an external battery, then to the KX3. The solar panel keeps the battery charged, and the battery acts as something of an ouput filter for the panel/charge controller.
>
> I would not connect the output of this (or any solar/switch-mode regulator) directly to the DC input jack of the KX3 without an external battery to stabilize the voltage.
>
> GL,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, "luke_308" <aurich85@> wrote:
> >
> > Here's an option I recently came across. It's a miniature switching voltage regulator rated to 3 Amps. I have not yet tested one to check for RFI but plan on doing so in the next week or two. http://www.dimensionengineering.com/products/de-swadj3
> >
> > I have a Goal Zero 13 solar panel and was told by Goal Zero directly that it's Chain-In port was regulated to 15v max but in fact it puts out close to 21v. I think I'll try the SWADJ3 to bring it down to more radio friendly voltages!
> >
> > Luke
> > KD0FIN
> >
>

10617. Re: [AT_Sprint] Re: Warmer plate question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 11:54:55 UTC
From: Barry N1EU
Topic: 10592 Message: 10617

Thanks Bruce, but I'm afraid you missed my question.

Barry N1EU

On Mon, Mar 25, 2013 at 11:34 AM, n1rx <bruce.beford@...> wrote:

> **
>
>
> Yes, support the board off the plate. This is what allows you to do one
> side, then the other. Remember, you are only pre-warming the board. The
> embossing tool does the actual solder melting.
> 73,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@...> wrote:
> >
> > On Mon, Mar 25, 2013 at 2:54 AM, radio_kx0r <careyfuller@...> wrote:
> >
> > > **
>
> > >
> > >
> > > I supported the pcb on a few pennies, so the SMT parts on the underside
> > > of the PCB touch nothing.
> > >
> > > You use the same warmer temperature whether the pcb is resting right on
> > the warmer surface or supported above with a few pennies? Seems like
> you'd
> > need a higher temp if it was spaced above, but you're saying to use the
> > same (right around boiling) temp with it spaced above?
> >
> > Thanks,
> > Barry N1EU
> >
>
>
>

10618. Re: Warmer plate question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 12:16:15 UTC
From: n1rx
Topic: 10592 Message: 10618

Sorry about that Barry. I have only used a non-adjustable candle warmer, so I skipped right over that. I still belive there is no need to crank up the heat, but perhaps someone else will offer their experience.
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@...> wrote:
>
> Thanks Bruce, but I'm afraid you missed my question.
>
> Barry N1EU
>
> On Mon, Mar 25, 2013 at 11:34 AM, n1rx <bruce.beford@...> wrote:
>
> > **
> >
> >
> > Yes, support the board off the plate. This is what allows you to do one
> > side, then the other. Remember, you are only pre-warming the board. The
> > embossing tool does the actual solder melting.
> > 73,
> > Bruce, N1RX
> >
> > --- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@> wrote:
> > >
> > > On Mon, Mar 25, 2013 at 2:54 AM, radio_kx0r <careyfuller@> wrote:
> > >
> > > > **
> >
> > > >
> > > >
> > > > I supported the pcb on a few pennies, so the SMT parts on the underside
> > > > of the PCB touch nothing.
> > > >
> > > > You use the same warmer temperature whether the pcb is resting right on
> > > the warmer surface or supported above with a few pennies? Seems like
> > you'd
> > > need a higher temp if it was spaced above, but you're saying to use the
> > > same (right around boiling) temp with it spaced above?
> > >
> > > Thanks,
> > > Barry N1EU
> > >
> >
> >

> >
>

10619. Re: [AT_Sprint] Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 02:52:17 UTC
From: Gil G.
Topic: 10590 Message: 10619

On Mon, 2013-03-25 at 02:33 +0000, luke_308 wrote:
>
> Here's an option I recently came across. It's a miniature switching
> voltage regulator rated to 3 Amps. I have not yet tested one to check
> for RFI but plan on doing so in the next week or two.
> http://www.dimensionengineering.com/products/de-swadj3
>
> I have a Goal Zero 13 solar panel and was told by Goal Zero directly
> that it's Chain-In port was regulated to 15v max but in fact it puts
> out close to 21v. I think I'll try the SWADJ3 to bring it down to more
> radio friendly voltages!
>
> Luke
> KD0FIN

Hello Luke,

That's the panel I plan on getting.. I might try that regulator too, to
charge a 9.6V battery pack..

Gil.

10620. Re: [AT_Sprint] Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 03:12:45 UTC
From: WVØH
Topic: 10590 Message: 10620

Guys,

I am looking at the GoalZero Escape 30 briefcase. Do you know if it has an internal regulator or is it raw voltage from the solar panels out to the whacky 4.7mm plug. Me thinks it raw unfiltered, unregulated voltage direct from the panels but wanted to ask someone. I plan to use that with my AnyVolt3 (when that comes in).

Myron WVØH
Printed on Recycled Data

On Mar 24, 2013, at 8:33 PM, "luke_308" <aurich85@...> wrote:

> Here's an option I recently came across. It's a miniature switching voltage regulator rated to 3 Amps. I have not yet tested one to check for RFI but plan on doing so in the next week or two. http://www.dimensionengineering.com/products/de-swadj3
>
> I have a Goal Zero 13 solar panel and was told by Goal Zero directly that it's Chain-In port was regulated to 15v max but in fact it puts out close to 21v. I think I'll try the SWADJ3 to bring it down to more radio friendly voltages!
>
> Luke
> KD0FIN
>
>

10621. Re: [AT_Sprint] Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 06:02:05 UTC
From: Gil G.
Topic: 10590 Message: 10621

On Mon, 2013-03-25 at 04:04 +0000, zigmundrat wrote:

> Another issue is that you need to match the controller to the
> battery chemistry. You cannot do this with a simple regulator,

Thanks. Could the regulator simply be used to take the 20V or so from
the panel down to say 15 or less to feed a LiPo charger?

Gil.

10622. Toaster Oven Soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 12:03:54 UTC
From: robjbrad
Topic: 10622 Message: 10622

Hello,
I was luck to get an order in for my first MTR radio. I have previously built a Softrock RXTX using a toaster oven for the SMDs as seen here:http://alturl.com/w48bk <http://alturl.com/w48bk> and it works well.I wondered if any builder had used this technique for Steve's kits?
Thanks and 73Rob 2E0ETN

10623. Re: [AT_Sprint] Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 12:37:57 UTC
From: WVØH
Topic: 10590 Message: 10623

Jerry,

Check out this MPPT charge controller from Genasun. They make a small one for SLA or LiFePO4 batteries.

http://genasun.com/all-products/solar-charge-controllers/for-lead/gv-4-pb-4a-solar-charge-controller/

Also have a look at Buddypole controller. I'm doubtful that this is an MPPT controller.

http://www.buddipole.com/sobaco.html

Myron WVØH
Printed on Recycled Data

On Mar 24, 2013, at 11:12 PM, "jgaffke" <jgaffke@...> wrote:

> Luke,
>
> I assume this is the data sheet for your solar panel:
> http://www.goalzero.com/creative/assets/guides/Nomad13.pdf
> Looks like they have some electronics inside to regulate to
> 5 and 12v, and that the "12v" output should be between 13 and 15v
> when drawing between 0 and 1 Amp. You measured 21 volts there at
> 0 amps, perhaps the 12v regulator on yours is faulty?
> An open circuit voltage of 21 volts is about right for a raw
> panel designed to work with a 12v battery.
>
> For occasional field use with such a small panel, I'd probably
> just hook the panel directly to a 12 volt lead acid battery,
> perhaps from a motorcycle or riding lawnmower.
> Regardless of battery voltage, that 13 Watt panel will only
> put out a constant Amp or so, limited by the number of photons
> available to free roughly the same number of electrons.
> Check the battery occasionally with a voltmeter, or add a
> linear voltage regulator set to 14 volts or so, to replace
> the one that was supposed to be inside your panel assembly.
>
> As Paul points out, LiPo's can fail catastrophically.
> Especially at high charge rates. If one in a stack is failing
> with a low voltage, the others will be getting overcharged
> unless the charger is sophisticated enough to deal with that.
> I have charged stacks of LiPo's with a single carefully set
> voltage regulator across the stack, but at a current of C/10.
> So a 2 Amp-Hour battery might be charged at 0.2 Amps with
> such a simple charger. A much better bet would be a well
> designed charger specifically for LiPo's.

>
> Check out the solar panel graph on the left side of page 2:
> http://www.sunelec.com/Specs/STP240Wde.pdf
> The flat lines show constant current, regardless of load voltage.
> The lines that peak show the power available from those
> currents and voltages.
>
> The MPPT chargers I'm aware of cost several hundred dollars.
> Assuming a maximum power point of 18 volts from the panel,
> a linear regulator into a 12v battery would be losing around
> 100% * (18-12)/18 = 33% of available power. And MPPT's
> typically lose 10% or so. And charging voltages are often
> 14 or 15 volts. So just use a linear voltage regulator.
> If it draws too much current for the available sunlight,
> the panel voltage will drop until the current is just right.
>
> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, "luke_308" <aurich85@...> wrote:
> > I have a Goal Zero 13 solar panel ... puts out close to 21v.
> > I think I'll try the SWADJ3 to bring it down ...
>
>

10624. Re: [AT_Sprint] Toaster Oven Soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 12:52:29 UTC
From: John D'Ausilio
Topic: 10622 Message: 10624

I built an ATS3 in my oven a couple of years back .. the referenced article looks complete, though I think a microscope is a bit overkill (I use Optivisors and a good halogen desk lamp)

de w1rt/john

On Mon, Mar 25, 2013 at 8:03 AM, robjbrad <robjbrad@...> wrote:

>
>
> Hello,
>
> I was luck to get an order in for my first MTR radio. I have previously
> built a Softrock RXTX using a toaster oven for the SMDs as seen here:
> http://alturl.com/w48bk and it works well.
> I wondered if any builder had used this technique for Steve's kits?
>
> Thanks and 73
> Rob 2E0ETN
>
>
>

10625. RE: [AT_Sprint] Re: Warmer plate question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 12:59:12 UTC
From: Dale Putnam
Topic: 10592 Message: 10625

I've had best results by setting the temperature, and once set, leave it at that temp. The board is supported off the surface with pennies, on either side. IF you can't have patience, with the preheating, damage to the board will occur, which will lead to a shortening of longevity, and usefulness of the radio. A few extra minutes in pre-heat and soldering time is a good investment, over the time that the radio is intended to be used. KX0R uses the beaded water bouncing on the surface, and that is a perfect and inexpensive way to set the temp. IF you can't wait for the water to skitter across the surface, purchase of an infrared instant reading thermometer is recommended.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: bruce.beford@...
Date: Mon, 25 Mar 2013 12:16:15 +0000
Subject: [AT_Sprint] Re: Warmer plate question

Sorry about that Barry. I have only used a non-adjustable candle warmer, so I skipped right over that. I still belive there is no need to crank up the heat, but perhaps someone else will offer their experience.

73,

Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@...> wrote:

>

> Thanks Bruce, but I'm afraid you missed my question.

>

> Barry N1EU

>

> On Mon, Mar 25, 2013 at 11:34 AM, n1rx <bruce.beford@...> wrote:

>

> > **

> >

> >

> > Yes, support the board off the plate. This is what allows you to do one

> > side, then the other. Remember, you are only pre-warming the board. The

> > embossing tool does the actual solder melting.

> > 73,

> > Bruce, N1RX

> >

> > --- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@> wrote:

> > >

> > > On Mon, Mar 25, 2013 at 2:54 AM, radio_kx0r <careyfuller@> wrote:

> > >

> > > > **

> >

> > > >

> > > >

> > > > I supported the pcb on a few pennies, so the SMT parts on the underside

> > > > of the PCB touch nothing.

> > > >

> > > > You use the same warmer temperature whether the pcb is resting right on

> > > the warmer surface or supported above with a few pennies? Seems like

> > you'd

> > > need a higher temp if it was spaced above, but you're saying to use the

> > > same (right around boiling) temp with it spaced above?

> > >

> > > Thanks,

> > > Barry N1EU

> > >

> >

> >

> >

>

10626. Re: [AT_Sprint] Toaster Oven Soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 13:24:16 UTC
From: Colin Tuckley
Topic: 10622 Message: 10626

Quoting robjbrad <robjbrad@...>:

> using a toaster oven for the SMDs as seen
> here:http://alturl.com/w48bk <http://alturl.com/w48bk>

That guy is using about twice as much solder paste as required. When the joint is done the surface should be concave, not looking like a bubble.

Colin G8TMV

10627. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 16:46:10 UTC
From: jgaffke
Topic: 10590 Message: 10627

Myron,

That Buddypole thingie doesn't have much of a description,
I'd want to know more before giving them my money.
They say it works with 4 cells of Lithium Ion, which is one
too many for the MTR. Controlling 75 watts with such a small
package means it's almost certainly PWM, could be either
series or shunt topology. Both are common. A series PWM
charger rapidly turns on a switch to send power to the
battery, with a duty cycle determined by the battery voltage.
A shunt PWM charger does the same, except that the switch
shorts out the panel. If you can dissipate the heat, a
linear voltage regulator would work just as well.

If you're sold on the extra efficiency of MPPT, the Genasun
looks like a good bet. And they have a model tailored for
3 cell Lithium Ion batteries at $115. I would assume
that means it starts charging a discharged battery pack
with low current till it reaches some minimum voltage, then
a bulk charge at high current to a specific ending voltage.
That ending voltage can vary across specific Lithium battery
chemistries, make sure Genasum and your battery maker agree
on that final voltage.

It does not monitor individual cell voltages or temperatures.
Some Lithium Ion cells and most battery packs include
protection to do this for you.
From http://en.wikipedia.org/wiki/Lithium-ion_battery:
"If overheated or overcharged, Li-ion batteries may suffer
thermal runaway and cell rupture. In extreme cases this can
lead to combustion. Deep discharge may short-circuit the cell,
in which case recharging would be unsafe.[citation needed]
To reduce these risks, Lithium-ion battery packs contain
fail-safe circuitry that shuts down the battery when its
voltage is outside the safe range of 3□4.2 V per cell."

Lithium-ion polymer is similar:
http://en.wikipedia.org/wiki/Lithium-ion_polymer_battery

If you have the time, charging Lithium Ion's up to a specific
voltage with a maxumum current of C/10 as described in my last
post is safe and simple. Works for NiMh and NiCad's as
well, many consumer products (portable radios especially) have
NiMh batteries with a C/10 charger and a timer circuit set for
15 to 20 hours. The NiMh and NiCads use the timer because
there is no easy way to detect the charge endpoint, whereas

with Lithium Ion and lead acid you can terminate at a specific voltage. (The fast chargers for NiMh/NiCad detect a rise in temperature or look for a minor dip in voltage to see end of charge, you can't just hold it to an ending voltage like you can for Lithium Ion and lead acid.)

That C/10 recommendation is pretty conservative. If you are not risk averse, put on your safety goggles and scour the web for information on Lithium Ion charging algorithms.
As stated above, my guess is that the Buddypole product is charging lithium ion cells with no algorithm other than simple voltage regulation. They have one product, good for lead acid or lithium ion.

Lithium Ion's the best bet if you hope to use your batteries in sub freezing temperatures. The model airplane guys (and Boeing) often charge and/or discharge them in 10 minutes at something like C*10 or more (charging is not 100% efficient, especially at those rates). And they have the highest energy density by weight of any commonly available battery. That might help explain the reputation for blowing up in a nasty lithium fueled fire.

Here's a $14 1W solar panel, often on sale for less.
With a linear voltage regulator it would be suitable for a 100ma charge into 3 Lithium Ion cells. Kind of bulky, but might be a good choice for a $100 transceiver that's usually pulling just 30 ma. I have several of the older red ones. As always with HF, your mileage may vary.
http://www.harborfreight.com/15-watt-solar-battery-charger-68692.html

With the HF, you're stuck packing mostly glass. Would be nice to find something similar in a cheap roll-up panel.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, WVÃ□H <s9plus@...> wrote:
> Check out this MPPT charge controller from Genasun.

10628. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 16:57:32 UTC
From: jgaffke
Topic: 10590 Message: 10628

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> Controlling 75 watts with such a small package means it's
> almost certainly PWM

If it was MPPT, that would be the lead story. In big print.
With the usual overly optimistic "best case" efficiency
figures.

MPPT really starts making sense when the panel is putting out
30 volts or more and you are trying to charge a 12v battery.

Jerry, KE7ER

10629. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 17:21:06 UTC
From: n1rx
Topic: 10590 Message: 10629

Just reading the specs, one can see it has no internal regulator:

INPUTS
Rated Wattage:
30W
Cell Type:
Mono-crystalline
Open-Circuit Voltage:
18-20V
Converting Efficiency:
17-18%
Output
12V Charging Port (4.7mm)
14-16V, 2.0A max (30W), not regulated

--- In AT_Sprint@yahoogroups.com, WVÃ□H <s9plus@...> wrote:
>
> Guys,
>
> I am looking at the GoalZero Escape 30 briefcase. Do you know if it has an internal regulator or is it raw voltage from the solar panels out to the whacky 4.7mm plug. Me thinks it raw unfiltered, unregulated voltage direct from the panels but wanted to ask someone. I plan to use that with my AnyVolt3 (when that comes in).
>
> Myron WVÃ□H
> Printed on Recycled Data
>
> On Mar 24, 2013, at 8:33 PM, "luke_308" <aurich85@...> wrote:
>
> > Here's an option I recently came across. It's a miniature switching voltage regulator rated to 3 Amps. I have not yet tested one to check for RFI but plan on doing so in the next week or two.
http://www.dimensionengineering.com/products/de-swadj3
> >
> > I have a Goal Zero 13 solar panel and was told by Goal Zero directly that it's Chain-In port was regulated to 15v max but in fact it puts out close to 21v. I think I'll try the SWADJ3 to bring it down to more radio friendly voltages!
> >
> > Luke
> > KD0FIN
> >
> >
>

10630. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 17:37:37 UTC
From: jgaffke
Topic: 10590 Message: 10630

Bruce,

If that's for the same panel as the one I pointed to
http://www.goalzero.com/creative/assets/guides/Nomad13.pdf
then they have slightly conflicting specs.
Mine says: 12V DC output 13-15V, 0-1A (13W max), not regulated
and also, somewhere else: Open Circuit Voltage: 18-20V
My assumption was that the 12V DC output was at least partially
regulated to a max of 15V, 16V in your case, even with zero
current draw. And that there was some other output for the raw
panel voltage where one might see up to 20V.
An equally plausible explanation is that the specs are bunk.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
> Just reading the specs, one can see it has no internal regulator:
> ...12V Charging Port (4.7mm)14-16V, 2.0A max (30W),not regulated

10631. What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 17:44:56 UTC
From: Clark
Topic: 10631 Message: 10631

With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?

72,

Clark WU4B

10632. Re: [AT_Sprint] What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 17:54:59 UTC
From: TJ Campie
Topic: 10631 Message: 10632

I have an American Morse Dirt Cheap Paddle right now. Their Porta Paddle II is really great and I sold the last one I had (regret) I may just buy one at Dayton again this year from the man himself. :)

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Mon, Mar 25, 2013 at 12:44 PM, Clark <clark.macaulay@...> wrote:

> **
>
>
> With all the hoopla about getting a new MTR to build with regards to the
> tools to use, I'd be interested in what kind of small and light weight keys
> will be used out there. Homebrew? Commercially made?
>
> 72,
>
> Clark WU4B
>
>
>

10633. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 17:58:32 UTC
From: Anthony
Topic: 10631 Message: 10633

Check out the keys made by American Morse Equipment. I have the Porta Paddle, and theMini B.

These keys are eally well made, small, and perfect for travel. I bought the Porta Paddle for use with a RockMite I built, but it's great for use with the ATS rigs (as is the Mini-B), and I plan to use both with my MTR too.

http://www.americanmorse.com

73
Anthony/W6GC

--- In AT_Sprint@yahoogroups.com, "Clark" <clark.macaulay@...> wrote:
>
> With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?
>
> 72,
>
> Clark WU4B
>

10634. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 18:08:55 UTC
From: Hank Greeb
Topic: 10631 Message: 10634

The only straight key I own, and the only straight key that Iplan to use with any rig, is my trusty J-38 Military Surplus, WW-II. I had one from 1951 when I was first licensed, until one Field Day in the 90's when it didn't come back with me and no one ever claimed finding it in their junk boxes. In 2005 or so I got a burr up my saddle to send code with my left foot again, looked around e-Bay, bid on a J-38, and won. It came in original packaging!

I still can win Left Foot Contests with the thing.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/25/2013 1:58 PM, Anthony wrote:
> Check out the keys made by American Morse Equipment. I have the Porta Paddle, and theMini B.
>
> These keys are eally well made, small, and perfect for travel. I bought the Porta Paddle for use with a RockMite I built, but it's great for use with the ATS rigs (as is the Mini-B), and I plan to use both with my MTR too.
>
> http://www.americanmorse.com
>
> 73
> Anthony/W6GC
>
> --- In AT_Sprint@yahoogroups.com, "Clark" <clark.macaulay@...> wrote:
>> With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?
>>
>> 72,
>>
>> Clark WU4B
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

10635. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 18:11:01 UTC
From: n1rx
Topic: 10590 Message: 10635

Hi, Jerry.
The text I quoted was from Goal Zero's spec sheet PDF from the website. The "instruction sheet" you link to below, does seem to _imply_ that there may be a clamp on the DC output, limiting it to 15v. But, I would assume it doesn't, and plan to use it as if unregulated. Or, find someone who has one, and ask them to measure the unloaded output voltage in full sun...
73,
bruce

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Bruce,
>
> If that's for the same panel as the one I pointed to
> http://www.goalzero.com/creative/assets/guides/Nomad13.pdf
> then they have slightly conflicting specs.
> Mine says: 12V DC output 13-15V, 0-1A (13W max), not regulated
> and also, somewhere else: Open Circuit Voltage: 18-20V
> My assumption was that the 12V DC output was at least partially
> regulated to a max of 15V, 16V in your case, even with zero
> current draw. And that there was some other output for the raw
> panel voltage where one might see up to 20V.
> An equally plausible explanation is that the specs are bunk.
>
> Jerry, KE7ER

10636. Re: [AT_Sprint] What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 18:13:42 UTC
From: cloud runner
Topic: 10631 Message: 10636

homebrew. My homebrew paddle is under ten grams and attaches to my mini-clipboard.

fred - kt5x

----- Original Message -----
From: Clark
To: AT_Sprint@yahoogroups.com
Sent: Monday, March 25, 2013 11:44 AM
Subject: [AT_Sprint] What Key Will You Use with the MTR?

With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?

72,

Clark WU4B

10637. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 18:21:47 UTC
From: William
Topic: 10631 Message: 10637

I built this paddle: www.amqrp.org/projects/paddle/NB6M Paddles.html
It fits inside of an Altoids tin to protect it. I glued a piece of sheet magnet on the bottom so that it sticks to the top of the altoids tin when in use. Works great.
Bill,WV1N

--- In AT_Sprint@yahoogroups.com, "Clark" <clark.macaulay@...> wrote:
>
> With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?
>
> 72,
>
> Clark WU4B
>

10638. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 18:37:08 UTC
From: Colin Evans
Topic: 10631 Message: 10638

I'll probably use my Palm Mini Paddle like I do with my first run MTR.

I could also use the home brew paper clip paddle I guess :-)

http://www.flickr.com/photos/24901892@N03/5833423807/

Using any key with an MTR is sure to provide fun!

73, Colin, M0CGH

Sent from my Android device.

10639. Re: [AT_Sprint] What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 18:16:20 UTC
From: Mike Crownover
Topic: 10631 Message: 10639

The Te Ne Ke. Very light and once you get it set up, a very responsive key. It is made by a radio club up north which I can't recall, but google and you will get the information. I have two of them, one with base and one without.

----- Original Message -----

With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?

72,

Clark WU4B

10640. Re: [AT_Sprint] Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 18:38:10 UTC
From: WVØH
Topic: 10590 Message: 10640

I guess the bottom line for me is can the Escape 30 be attached to the input of an AnyVolt3 (after some rewiring or plug mods) to charge a 12V SLA to some degree? I say "some degree" because there is not the added efficiency of an MPPT controller and I'd probably choose 13.8-14.0 Volts output to float my SLA. I'll probably go with Anderson PP through out the system.

The next thing is how noisy is the AnyVolt3? Anybody use this out in the field next to an antenna?

Myron WVØH
Printed on Recycled Data

On Mar 25, 2013, at 12:11 PM, "n1rx" <bruce.beford@...> wrote:

> Hi, Jerry.
> The text I quoted was from Goal Zero's spec sheet PDF from the website. The "instruction sheet" you link to below, does seem to _imply_ that there may be a clamp on the DC output, limiting it to 15v. But, I would assume it doesn't, and plan to use it as if unregulated. Or, find someone who has one, and ask them to measure the unloaded output voltage in full sun...
> 73,
> bruce
>
> --- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> >
> > Bruce,
> >
> > If that's for the same panel as the one I pointed to
> > http://www.goalzero.com/creative/assets/guides/Nomad13.pdf
> > then they have slightly conflicting specs.
> > Mine says: 12V DC output 13-15V, 0-1A (13W max), not regulated
> > and also, somewhere else: Open Circuit Voltage: 18-20V
> > My assumption was that the 12V DC output was at least partially
> > regulated to a max of 15V, 16V in your case, even with zero
> > current draw. And that there was some other output for the raw
> > panel voltage where one might see up to 20V.
> > An equally plausible explanation is that the specs are bunk.
> >
> > Jerry, KE7ER
>
>

10641. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 19:31:29 UTC
From: Etienne Scott
Topic: 10631 Message: 10641

The Te Ne Ke is being sold on eBay:
http://www.ebay.com/itm/Te-Ne-Ke-minature-morse-code-key-without-base-/140867796468?pt=US_Code_Keyers_Keys&hash=item20cc5ffdf4

Etienne-K7ATN

--- In AT_Sprint@yahoogroups.com, Mike Crownover <ad5a@...> wrote:
>
> The Te Ne Ke. Very light and once you get it set up, a very responsive key. It is made by a radio club up north which I can't recall, but google and you will get the information. I have two of them, one with base and one without.
>
> ----- Original Message -----
> Â
>
>
>
>
> With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?
>
> 72,
>
> Clark WU4B
>

10642. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 19:49:33 UTC
From: jgaffke
Topic: 10590 Message: 10642

The AnyVolt3 is not going to do much good on a PV panel.
It needs to monitor the input voltage as well, and keep that
up in the region of maximum power for that panel. Otherwise
it's no better than a linear regulator, and probably worse.

--- In AT_Sprint@yahoogroups.com, WVÃ□H <s9plus@...> wrote:
> ...can the Escape 30 be attached to the input of an AnyVolt3...

Regarding that $14 HF panel:

The red HF panels I got were designed for a 12v lead acid battery.
This new one claims to be good for a 12v or 24v battery. No
switch, so might waste more power than my red one on a 12v load.
Many of the reviews talk about how it warps into a pretzel when
left in the dash. Cool if true, means it's built all of
lightweight plastic. The boilerplate in the manual is quite
amusing. Suggests you hire a qualified electrician if doing a
grid tie. And how big a wire you need to carry 200 Amps. Nothing
informative, like weight, Vmp or Voc (max power, open circuit).

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> Here's a $14 1W solar panel, often on sale for less...
> http://www.harborfreight.com/15-watt-solar-battery-charger-68692.html

And here's some nice but very spendy rollables:
http://californiapc.com/index.php?l=product_list&c=174

Jerry, KE7ER

10643. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 20:45:31 UTC
From: k8mdb
Topic: 10631 Message: 10643

My trusty Begali Traveler Light with anodized aluminum paddles... what else? It may weight a pound and a half, but man it sends like butter.

http://www.i2rtf.com/html/traveler_light.html

--- In AT_Sprint@yahoogroups.com, "Clark" <clark.macaulay@...> wrote:
>
> With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?
>
> 72,
>
> Clark WU4B
>

10644. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 21:26:58 UTC
From: g8tmv
Topic: 10631 Message: 10644

--- In AT_Sprint@yahoogroups.com, "Clark" <clark.macaulay@...> wrote:
>
> With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?

One thing to remember is that you really need paddles with Steve's rigs rather than a straight key.

If you use a straight key then a lot of the features are not available.

Colin G8TMV

10645. Re: [AT_Sprint] Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 21:30:39 UTC
From: WVØH
Topic: 10590 Message: 10645

Why won't the AV3 work on an 18-20 V panel?

Myron WVØH
Printed on Recycled Data

On Mar 25, 2013, at 1:49 PM, "jgaffke" <jgaffke@...> wrote:

> The AnyVolt3 is not going to do much good on a PV panel.
> It needs to monitor the input voltage as well, and keep that
> up in the region of maximum power for that panel. Otherwise
> it's no better than a linear regulator, and probably worse.
>
> --- In AT_Sprint@yahoogroups.com, WVØH <s9plus@...> wrote:
> > ...can the Escape 30 be attached to the input of an AnyVolt3...
>
> Regarding that $14 HF panel:
>
> The red HF panels I got were designed for a 12v lead acid battery.
> This new one claims to be good for a 12v or 24v battery. No
> switch, so might waste more power than my red one on a 12v load.
> Many of the reviews talk about how it warps into a pretzel when
> left in the dash. Cool if true, means it's built all of
> lightweight plastic. The boilerplate in the manual is quite
> amusing. Suggests you hire a qualified electrician if doing a
> grid tie. And how big a wire you need to carry 200 Amps. Nothing
> informative, like weight, Vmp or Voc (max power, open circuit).
>
> --- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> > Here's a $14 1W solar panel, often on sale for less...
> > http://www.harborfreight.com/15-watt-solar-battery-charger-68692.html
>
> And here's some nice but very spendy rollables:
> http://californiapc.com/index.php?l=product_list&c=174
>
> Jerry, KE7ER
>
>

10646. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 23:32:43 UTC
From: cloud runner
Topic: 10590 Message: 10646

Perhaps another question might be, why would you want it to work? Why not use a proper charge controller which at that amperage would cost less than half as much as the anyvolt?

See if you can find the Micro M+ charge controller kit.

I don't understand why you want a solar collector at all, though. The MTR uses so little current, that a 3 oz LiPO will power it for about three hours of continuous operation. An 8 oz LiPO will power it for 24 hours of operation EZ.

73 fred - kt5x

-

Why won't the AV3 work on an 18-20 V panel?

Myron WVØH
Printed on Recycled Data

On Mar 25, 2013, at 1:49 PM, "jgaffke" <jgaffke@...> wrote:

The AnyVolt3 is not going to do much good on a PV panel.
It needs to monitor the input voltage as well, and keep that
up in the region of maximum power for that panel. Otherwise
it's no better than a linear regulator, and probably worse.

--- In AT_Sprint@yahoogroups.com, WVØH <s9plus@...> wrote:
> ...can the Escape 30 be attached to the input of an AnyVolt3...

Regarding that $14 HF panel:

The red HF panels I got were designed for a 12v lead acid battery.
This new one claims to be good for a 12v or 24v battery. No
switch, so might waste more power than my red one on a 12v load.
Many of the reviews talk about how it warps into a pretzel when
left in the dash. Cool if true, means it's built all of
lightweight plastic. The boilerplate in the manual is quite
amusing. Suggests you hire a qualified electrician if doing a
grid tie. And how big a wire you need to carry 200 Amps. Nothing
informative, like weight, Vmp or Voc (max power, open circuit).

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> Here's a $14 1W solar panel, often on sale for less...
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And here's some nice but very spendy rollables:
http://californiapc.com/index.php?l=product_list&c=174

Jerry, KE7ER

10647. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-25 23:21:46 UTC
From: Peter Martin
Topic: 10631 Message: 10647

Another vote for the American Morse Porta Paddle.
Lovely little key and not that expensive either.
Iuse mine with my ATS4b and MTR

http://dadedaditdadadeda.blogspot.co.uk/2013/03/new-key.html

Pete
G4ISJ

10648. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 00:15:32 UTC
From: jgaffke
Topic: 10590 Message: 10648

Myron,

The AV3 is a fairly standard buck-boost switching power supply.
It can efficiently convert a higher voltage to a lower voltage
(and vice versa), trading volts for amps by making use of the
flywheel effect an inductor has on current flow. But it is
concerned only with regulating the output voltage.

Assume you put a 15 watt panel on the input and
a car battery discharged to 11 volts on the output.
The power supply will try to give as much current
as needed to bring the output up to 14 volts.
The panel can't supply that much current, so the voltage
from the panel into the power supply will drop until the
current is down around the amp that the panel can manage.
And voltage into the battery will be something a little over
that 11 volts you started with, slowly building up over time.
You'd be just as well off tying the panel directly to the battery,
and disconnecting when the battery reaches a charged state.
Or using a linear regulator, or it's chopper cousin the
PWM regulator. A PWM regulator does not have an inductor, so
does not have the efficiency of the AV3 switcher (or an MPPT
charge controller) in converting a higher voltage to a
lower voltage.

If the AV3 had an adjustment for maximum current (it does not),
you'd find as you fiddled with that knob that there's a setting
for which the current into the battery peaked, at somewhat
more current than you got just connecting the panel to the battery.
But when the sun angle changes a bit and not as much light
strikes the panel, you'd have to find that setting again.
So you sit there with a voltmeter on the panel, continuously
adjusting that maximum current knob, trying to keep the panel
voltage somewhere near the Maximum Power Point for that panel.
On panels built to charge a 12v battery through a PWM charge
controller, that is typically around 18 volts. There are
voltage losses through wires and charge controllers, and lead
acid batteries occasionally should have an equalization voltage
of 15 volts or so to reduce sulfate films on the plates, hence
the extra 6 volts beyond what you might expect. An MPPT charge
controller handles that current limit knob for you automatically,
keeping the panel voltage up around 18 volts. In fact it
automatically finds that special voltage (of 18 volts in my
example) at which it gets maximum power from the panel,
by constantly adjusting the current into the battery in
search of the panels maximum power point.

Way more than you wanted to know, I'm sure.

> I don't understand why you want a solar collector at all, though.

Fred,

May not make too much sense on a days outing, but would if out
for a month. Especially if you have other stuff using
batteries. And some people just like to understand stuff.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, WVÃ□H <s9plus@...> wrote:
> Why won't the AV3 work on an 18-20 V panel?

> On Mar 25, 2013, at 1:49 PM, "jgaffke" <jgaffke@...> wrote:
> > The AnyVolt3 is not going to do much good on a PV panel.
> > It needs to monitor the input voltage as well, and keep that
> > up in the region of maximum power for that panel. Otherwise
> > it's no better than a linear regulator, and probably worse.

10649. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 01:37:59 UTC
From: jgaffke
Topic: 10590 Message: 10649

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> If the AV3 had an adjustment for maximum current (it does not),
> you'd find as you fiddled with that knob that there's a setting
> for which the current into the battery peaked, at somewhat
> more current than you got just connecting the panel to the battery.

That sentence above is not quite right.
What the MPPT does is figure out a panel voltage that gives max power
(typically around 18 volts on these panels), and then varies
the output current to try to maintain that input desired voltage.

The AV3 can't do that, all it looks at is the output voltage.

Jerry

10650. ats-3b sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 01:52:15 UTC
From: wa2ohf
Topic: 10650 Message: 10650

Hay I just seen a ATS-3B with rotary encoder for sale on e-ham for 250.00 by k9nk

Better hurry

Art NS7E

10651. RE: [AT_Sprint] ats-3b sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 02:46:03 UTC
From: Dale Putnam
Topic: 10650 Message: 10651

I know that radio too.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: arthurripple@...
Date: Tue, 26 Mar 2013 01:52:15 +0000
Subject: [AT_Sprint] ats-3b sale

Hay I just seen a ATS-3B with rotary encoder for sale on e-ham for 250.00 by k9nk

Better hurry

Art NS7E

10652. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 03:37:12 UTC
From: luke_308
Topic: 10590 Message: 10652

"I don't understand why you want a solar collector at all, though": Because not everybody returns to their cozy shack to recharge their batteries after every outing, or because your standard plug-in charge controller is rendered useless if the next natural disaster or military attack knocks the power grid offline for any significant amount of time, or maybe I just think it's fun to use a natural, inexpensive and virtually endless power supply to run my toys...

Luke
KD0FIN

--- In AT_Sprint@yahoogroups.com, "cloud runner" <just.one.hill@...> wrote:
>
> Perhaps another question might be, why would you want it to work? Why not use a proper charge controller which at that amperage would cost less than half as much as the anyvolt?
>
> See if you can find the Micro M+ charge controller kit.
>
> I don't understand why you want a solar collector at all, though. The MTR uses so little current, that a 3 oz LiPO will power it for about three hours of continuous operation. An 8 oz LiPO will power it for 24 hours of operation EZ.
>
> 73 fred - kt5x
>
> -
>
> Why won't the AV3 work on an 18-20 V panel?
>
> Myron WVÃ□H
> Printed on Recycled Data
>
> On Mar 25, 2013, at 1:49 PM, "jgaffke" <jgaffke@...> wrote:
>
>
>
> The AnyVolt3 is not going to do much good on a PV panel.
> It needs to monitor the input voltage as well, and keep that
> up in the region of maximum power for that panel. Otherwise
> it's no better than a linear regulator, and probably worse.
>
> --- In AT_Sprint@yahoogroups.com, WVÃ□H <s9plus@> wrote:
> > ...can the Escape 30 be attached to the input of an AnyVolt3...
>
> Regarding that $14 HF panel:
>
> The red HF panels I got were designed for a 12v lead acid battery.
> This new one claims to be good for a 12v or 24v battery. No

> switch, so might waste more power than my red one on a 12v load.
> Many of the reviews talk about how it warps into a pretzel when
> left in the dash. Cool if true, means it's built all of
> lightweight plastic. The boilerplate in the manual is quite
> amusing. Suggests you hire a qualified electrician if doing a
> grid tie. And how big a wire you need to carry 200 Amps. Nothing
> informative, like weight, Vmp or Voc (max power, open circuit).
>
> --- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@> wrote:
> > Here's a $14 1W solar panel, often on sale for less...
> > http://www.harborfreight.com/15-watt-solar-battery-charger-68692.html
>
> And here's some nice but very spendy rollables:
> http://californiapc.com/index.php?l=product_list&c=174
>
> Jerry, KE7ER
>

10653. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 04:14:41 UTC
From: jgaffke
Topic: 10590 Message: 10653

That "Micro M+" charge controller is a really good steer.
http://www.repeater-builder.com/backup-power/pdfs/the-micro-m-plus-charge-controller.pdf

I'd call it a series PWM charge controller, except it takes
seconds to cycle, so virtually no radio hash.
Unfortunately the SunlightEnergySystems website where the kits
are sold is down just now, I sent email to ask if that's
long term.

If there was a spare pin on the MSP430, could implement it
with little more than a NDT2955 PFET pass transistor like the
one Steve uses to key the rig. If the MSP430 senses the
battery voltage is low, it turns on the PFET to send power
from the panel to the battery for however long it takes
for the voltage to rise up to the "fully charged" level.
Then the MSP430 turns the PFET off for 4 seconds
before inspecting the voltage again. Need a small panel,
sized for the desired battery charge current. And should have
some fail safe way to shut down the PFET if the code in the
MSP430 runs off the rails.

As always, not necessarily a good idea.
But fun to think about.

Jerry, KE7ER

> --- In AT_Sprint@yahoogroups.com, "cloud runner" wrote:
> See if you can find the Micro M+ charge controller kit.

10654. Re: [AT_Sprint] ats-3b sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 05:10:14 UTC
From: Steven Weber
Topic: 10650 Message: 10654

Man. I'm really not charging enough for these things am I?
Steve KD1JV

> Hay I just seen a ATS-3B with rotary encoder for sale on e-ham for 250.00
> by k9nk
>
> Better hurry
>
> Art NS7E

10655. Re: ats-3b sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 08:40:57 UTC
From: n1rx
Topic: 10650 Message: 10655

Well, that all depends on your point of view... I didn't look at the eHam listing for the 3b but... If it's asssembled, and in a case, and so is the encoder, then it's a fair price. Let's see- to build the ATS-3b with all the band modules and then build the encoder board and mount both in case(s) would probably take at least 10 hours. For some folks this would be double or triple that time. That includes case construction time.

I forget how much the 3b kit was... $130 or so, if memory serves, and another $30 for the encoder. If the minimum 10 hours for assembly is used, that comes to.. wait for it... $9.00 per hour to build. Less if you take longer.

So, on the face of it, I'd say it's a very reasonable price, no?

73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Man. I'm really not charging enough for these things am I?
> Steve KD1JV
>
> > Hay I just seen a ATS-3B with rotary encoder for sale on e-ham for 250.00
> > by k9nk
> >
> > Better hurry
> >
> > Art NS7E
>

10656. Re: [AT_Sprint] Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 01:28:27 UTC
From: WVØH
Topic: 10590 Message: 10656

Thanks Jerry, I'm just starting to understand this a bit more everyday now. Yeah, the general current consumption of QRP rigs these days is so small that any battery of any size will work for weeks! I wanted to just understand why an MPPT controller is better, now I know. I have seen some MPPT controllers for as little as $65 but I'm sure that Morningstar has some less expensive, or at least non-MPPT controllers.

Thanks again.

Myron WVØH
Printed on Recycled Data

On Mar 25, 2013, at 6:15 PM, "jgaffke" <jgaffke@yahoo.com> wrote:

> Myron,
>
> The AV3 is a fairly standard buck-boost switching power supply.
> It can efficiently convert a higher voltage to a lower voltage
> (and vice versa), trading volts for amps by making use of the
> flywheel effect an inductor has on current flow. But it is
> concerned only with regulating the output voltage.
>
> Assume you put a 15 watt panel on the input and
> a car battery discharged to 11 volts on the output.
> The power supply will try to give as much current
> as needed to bring the output up to 14 volts.
> The panel can't supply that much current, so the voltage
> from the panel into the power supply will drop until the
> current is down around the amp that the panel can manage.
> And voltage into the battery will be something a little over
> that 11 volts you started with, slowly building up over time.
> You'd be just as well off tying the panel directly to the battery,
> and disconnecting when the battery reaches a charged state.
> Or using a linear regulator, or it's chopper cousin the
> PWM regulator. A PWM regulator does not have an inductor, so
> does not have the efficiency of the AV3 switcher (or an MPPT
> charge controller) in converting a higher voltage to a
> lower voltage.
>
> If the AV3 had an adjustment for maximum current (it does not),
> you'd find as you fiddled with that knob that there's a setting
> for which the current into the battery peaked, at somewhat
> more current than you got just connecting the panel to the battery.
> But when the sun angle changes a bit and not as much light
> strikes the panel, you'd have to find that setting again.
> So you sit there with a voltmeter on the panel, continuously
> adjusting that maximum current knob, trying to keep the panel

> voltage somewhere near the Maximum Power Point for that panel.
> On panels built to charge a 12v battery through a PWM charge
> controller, that is typically around 18 volts. There are
> voltage losses through wires and charge controllers, and lead
> acid batteries occasionally should have an equalization voltage
> of 15 volts or so to reduce sulfate films on the plates, hence
> the extra 6 volts beyond what you might expect. An MPPT charge
> controller handles that current limit knob for you automatically,
> keeping the panel voltage up around 18 volts. In fact it
> automatically finds that special voltage (of 18 volts in my
> example) at which it gets maximum power from the panel,
> by constantly adjusting the current into the battery in
> search of the panels maximum power point.
>
> Way more than you wanted to know, I'm sure.
>
> > I don't understand why you want a solar collector at all, though.
>
> Fred,
>
> May not make too much sense on a days outing, but would if out
> for a month. Especially if you have other stuff using
> batteries. And some people just like to understand stuff.
>
> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, WVØH <s9plus@...> wrote:
> > Why won't the AV3 work on an 18-20 V panel?
>
> > On Mar 25, 2013, at 1:49 PM, "jgaffke" <jgaffke@...> wrote:
> > > The AnyVolt3 is not going to do much good on a PV panel.
> > > It needs to monitor the input voltage as well, and keep that
> > > up in the region of maximum power for that panel. Otherwise
> > > it's no better than a linear regulator, and probably worse.
>
>

10657. Re: [AT_Sprint] What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 04:48:32 UTC
From: Gil G.
Topic: 10631 Message: 10657

I use the American Morse DCP paddle mounted on a Rock-Mite/Mity-Box, so my paddle is a spare radio!

See: http://radiopreppers.com/index.php/topic,191.0.html

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 25, 2013, at 7:21 PM, Peter Martin wrote:

> Another vote for the American Morse Porta Paddle.

10658. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 02:38:13 UTC
From: XV4Y
Topic: 10631 Message: 10658

Add my vote to American Morse Equipment.
When I asked the same question a little less than a year ago, my short list was between the Te Ne Ke and one of the AME.
The TeNeKe seemed great but I was worried by the two springs being exposed while I leave the paddle into my bag.
Finally the AME paddles seemed sturdier and easier to fix in case something got broken.

I bought one Dirt Cheap Paddle and assembled it.
It is a very fine piece of equipment and if you give it a little finishing, very good looking too. It can send comfortably up to 20wpm which is my speed anyway.
Its design is simple, but well thought. Nothing comparable to a "desk paddle", but like for the ATS/MTR it was not designed for this.
I can send with the right hand while the left hand keep it still on the table. I will not do contesting like this but as the ATS/MTR have keyer memories, you are not obliged to send all the exchanges "by hand".
I recommend it, I think the price/quality ratio is unbeatable.
The PortaPaddle is an improvement of course, but for me the budget was important...

Here a full article (in French) with pictures :
http://xv4y.radioclub.asia/2013/01/10/manipulateur-iambic-en-kit-le-dirty-cheap-paddle-dame-suite/

73,
Yan - XV4Y.

Yannick DEVOS - XV4Y
New online shop for kits and more
http://xv4y.radioclub.asia/boutique/

Le 26 mars 2013 à 06:21, Peter Martin a écrit :

>
>
> Another vote for the American Morse Porta Paddle.
> Lovely little key and not that expensive either.
> Iuse mine with my ATS4b and MTR
>
> http://dadedaditdadadeda.blogspot.co.uk/2013/03/new-key.html
>
> Pete
> G4ISJ
>
>
>

10659. Re: [AT_Sprint] Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 12:36:32 UTC
From: WVØH
Topic: 10590 Message: 10659

One last question and I'll be done.

If I have a panel that cannot source the current requirement of the load, the MPPT configuration is the way to go. If however I have a large array that can source more than the load draws pretty much any regulator can work right? PWM higher efficiency, linear no RFI.

Is there a website that covers all of the basics of charge controllers and is comprehensive enough to satisfy the EE in me.

Thanks,
Myron WVØH
Printed on Recycled Data

On Mar 25, 2013, at 7:28 PM, WVØH <s9plus@...> wrote:

> Thanks Jerry, I'm just starting to understand this a bit more everyday now. Yeah, the general current consumption of QRP rigs these days is so small that any battery of any size will work for weeks! I wanted to just understand why an MPPT controller is better, now I know. I have seen some MPPT controllers for as little as $65 but I'm sure that Morningstar has some less expensive, or at least non-MPPT controllers.
>
> Thanks again.
>
> Myron WVØH
> Printed on Recycled Data
>
> On Mar 25, 2013, at 6:15 PM, "jgaffke" <jgaffke@...> wrote:
>
>>
>> Myron,
>>
>> The AV3 is a fairly standard buck-boost switching power supply.
>> It can efficiently convert a higher voltage to a lower voltage
>> (and vice versa), trading volts for amps by making use of the
>> flywheel effect an inductor has on current flow. But it is
>> concerned only with regulating the output voltage.
>>
>> Assume you put a 15 watt panel on the input and
>> a car battery discharged to 11 volts on the output.
>> The power supply will try to give as much current
>> as needed to bring the output up to 14 volts.
>> The panel can't supply that much current, so the voltage
>> from the panel into the power supply will drop until the
>> current is down around the amp that the panel can manage.
>> And voltage into the battery will be something a little over

>> that 11 volts you started with, slowly building up over time.
>> You'd be just as well off tying the panel directly to the battery,
>> and disconnecting when the battery reaches a charged state.
>> Or using a linear regulator, or it's chopper cousin the
>> PWM regulator. A PWM regulator does not have an inductor, so
>> does not have the efficiency of the AV3 switcher (or an MPPT
>> charge controller) in converting a higher voltage to a
>> lower voltage.
>>
>> If the AV3 had an adjustment for maximum current (it does not),
>> you'd find as you fiddled with that knob that there's a setting
>> for which the current into the battery peaked, at somewhat
>> more current than you got just connecting the panel to the battery.
>> But when the sun angle changes a bit and not as much light
>> strikes the panel, you'd have to find that setting again.
>> So you sit there with a voltmeter on the panel, continuously
>> adjusting that maximum current knob, trying to keep the panel
>> voltage somewhere near the Maximum Power Point for that panel.
>> On panels built to charge a 12v battery through a PWM charge
>> controller, that is typically around 18 volts. There are
>> voltage losses through wires and charge controllers, and lead
>> acid batteries occasionally should have an equalization voltage
>> of 15 volts or so to reduce sulfate films on the plates, hence
>> the extra 6 volts beyond what you might expect. An MPPT charge
>> controller handles that current limit knob for you automatically,
>> keeping the panel voltage up around 18 volts. In fact it
>> automatically finds that special voltage (of 18 volts in my
>> example) at which it gets maximum power from the panel,
>> by constantly adjusting the current into the battery in
>> search of the panels maximum power point.
>>
>> Way more than you wanted to know, I'm sure.
>>
>> > I don't understand why you want a solar collector at all, though.
>>
>> Fred,
>>
>> May not make too much sense on a days outing, but would if out
>> for a month. Especially if you have other stuff using
>> batteries. And some people just like to understand stuff.
>>
>> Jerry, KE7ER
>>
>> --- In AT_Sprint@yahoogroups.com, WVØH <s9plus@...> wrote:
>> > Why won't the AV3 work on an 18-20 V panel?
>>
>> > On Mar 25, 2013, at 1:49 PM, "jgaffke" <jgaffke@...> wrote:
>> > > The AnyVolt3 is not going to do much good on a PV panel.
>> > > It needs to monitor the input voltage as well, and keep that
>> > > up in the region of maximum power for that panel. Otherwise

>> > > it's no better than a linear regulator, and probably worse.
>
>

10660. Re: [AT_Sprint] ats-3b sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 12:55:41 UTC
From: cloud runner
Topic: 10650 Message: 10660

The Truth about eBay ... The price of a sale is a dollar over what the second person is willing to pay.

So ... let's say there is a person who is desparate for one of these little radios and is willing to pay $275 for one. There is a second person who is willing to pay $249, so it sells for $250.

That does not mean 100 of them could be sold for that price. ONE of them can be sold for that price IF no other is available. To see what the 100th might sell for, you have to look at the tenth or twentieth lowest bidder.

73 fred - kt5x

Man. I'm really not charging enough for these things am I?
Steve KD1JV

> Hay I just seen a ATS-3B with rotary encoder for sale on e-ham for 250.00
> by k9nk
>
> Better hurry
>
> Art NS7E

10661. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 13:59:31 UTC
From: Rich
Topic: 10631 Message: 10661

Or....
http://w8cso.org/index.php?page=teneke

Same price.

Rich
NU6T

On 3/25/2013 12:31 PM, Etienne Scott wrote:
>
> The Te Ne Ke is being sold on eBay:
> http://www.ebay.com/itm/Te-Ne-Ke-minature-morse-code-key-without-base-/140867796468?pt=US_Code_Keyers_Keys&hash=item20cc5ffdf4
>
> Etienne-K7ATN
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>,
> Mike Crownover <ad5a@...> wrote:
> >
> > The Te Ne Ke. Very light and once you get it set up, a very
> responsive key. It is made by a radio club up north which I can't
> recall, but google and you will get the information. I have two of
> them, one with base and one without.
> >
> > ----- Original Message -----
> > ?
> >
> >
> >
> >
> > With all the hoopla about getting a new MTR to build with regards to
> the tools to use, I'd be interested in what kind of small and light
> weight keys will be used out there. Homebrew? Commercially made?
> >
> > 72,
> >
> > Clark WU4B
> >
>
>

10662. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 14:02:11 UTC
From: steve_wg0at
Topic: 10631 Message: 10662

Inspired by Fred/KT5X's homebrew teneke ...I'll be using a variation of his wood design teneke or as goats and I call it the SOTApaddle made from a found piece of deadwood near timberline from a recent SOTA adventure.

https://plus.google.com/photos/112295522990729632882/albums/5856052077039686609/5856052137630788114?banner=pwa

Also working on a touch-keyer design but unsure if I can unlearn keeping my digits away from the paddles until I send ...my old habit of resting my thumb near the dit-paddle may be a show stopper on that design? donno?

Steve/wGOAT

--- In AT_Sprint@yahoogroups.com, "Etienne Scott" <climb2ski97215@...> wrote:
>
> The Te Ne Ke is being sold on eBay:
> http://www.ebay.com/itm/Te-Ne-Ke-minature-morse-code-key-without-base-/140867796468?pt=US_Code_Keyers_Keys&hash=item20cc5ffdf4
>
> Etienne-K7ATN
>
> --- In AT_Sprint@yahoogroups.com, Mike Crownover <ad5a@> wrote:
> >
> > The Te Ne Ke. Very light and once you get it set up, a very responsive key. It is made by a radio club up north which I can't recall, but google and you will get the information. I have two of them, one with base and one without.
> >
> > ----- Original Message -----
> > Â
> >
> >
> >
> >
> > With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?
> >
> > 72,
> >
> > Clark WU4B
> >
>

10663. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 14:08:09 UTC
From: Lee Hiers
Topic: 10631 Message: 10663

On Tue, Mar 26, 2013 at 10:02 AM, steve_wg0at <qrp.wg0at@...> wrote:

Also working on a touch-keyer design but unsure if I can unlearn keeping my
> digits away from the paddles until I send ...my old habit of resting my
> thumb near the dit-paddle may be a show stopper on that design?
>
I think a touch paddle is definitely the way to go for ultimate lightness.
But, yes, the problem is whether or not you can adapt to it. I've
considered building a touch paddle into my ATS3b, but haven't done it yet -
I've got the board and tossed it together with a couple of pads inside a
small cardboard box (think 35mm film box if you remember those!) - not
sturdy, but I'm pretty sure it weighs less than an ounce! See photo on
this page: http://www.aa4ga.com/2012/05/spartan-sprint-may-2012.html

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10664. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 14:11:59 UTC
From: Joseph Trombino, Jr
Topic: 10631 Message: 10664

I'll be using my N3ZN ZN-QRP iambic paddle...it weighs just over one pound and is a sweet and smooth device...it stays put on my desk while sending Morse so I used it in the shack for several weeks until my ZN5 arrived.

The ZN-QRP might be a tad heavy for the backpacker but my portable field ops are not of the backpacking variety (grin).

73, Joe W2KJ
I QRP, therefore I am

>
> Or....
> http://w8cso.org/index.php?page=teneke
>
> Same price.
> Rich
> NU6T
>
> On 3/25/2013 12:31 PM, Etienne Scott wrote:
>>
>> The Te Ne Ke is being sold on eBay:
>> http://www.ebay.com/itm/Te-Ne-Ke-minature-morse-code-key-without-base-/140867796468?pt=US_Code_Keyers_Keys&hash=item20cc5ffdf4
>>
>> Etienne-K7ATN
>>
>> --- In AT_Sprint@yahoogroups.com, Mike Crownover <ad5a@...> wrote:
>> >
>> > The Te Ne Ke. Very light and once you get it set up, a very responsive key. It is made by a radio club up north which I can't recall, but google and you will get the information. I have two of them, one with base and one without.
>> >
>> > ----- Original Message -----
>> > Â
>> >
>> >
>> >
>> >
>> > With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?
>> >
>> > 72,
>> >
>> > Clark WU4B
>> >

>>
>

10665. MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 14:25:39 UTC
From: cloud runner
Topic: 10665 Message: 10665

measurements made with the QRP-O-Meter ...

10 volts = 4.0 watts out

10.5 volts = 5.0 watts out

12.4 volts = 5.75 watts out

I use a 500 mAH LiPO battery that will power the radio for about three hours. This battery weighs less than two ounces. I also have a 1,000 mAH battery which weighs about 3 ounces and would power the radio about five hours, and a 2.2 AH LiPO that weighs 8 ounces and which would power the radio for something like 12 hours of continuous use with a lot of transmitting.

I have two sub-mini toggles between the battery and the radio. one introduces a single diode and point seven volts drop and the other introduces three diodes in series or 2.1 volt drop. Together can get 2.8 volt drop, or into the nine volt range.

The battery fully charged produces 12.4 volts, but quickly drops to 11.6 volts where it is flat for a long time.

So ... I can keep the voltage below 10 volts for tuning up. And clearly, there is no reason to run the voltage any higher than 10.5 or 11 volts for full output.

I'll have this radio on a SOTA peak later today, 2000z on 14.061 using the call sign WS-zero-TA, WS0TA/

73, fred- kt5x

10666. Re: [AT_Sprint] MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 14:31:26 UTC
From: Alan Shapiro
Topic: 10665 Message: 10666

Fred,
Too bad you don't get on phone much.....Whiskey SOTA is such a fine phonetic!

NM5S
> I'll have this radio on a SOTA peak later today, 2000z on 14.061 using
> the call sign WS-zero-TA, WS0TA/
> 73, fred- kt5x
>

10667. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 14:35:49 UTC
From: cloud runner
Topic: 10631 Message: 10667

Touch key is not the ultimate way to go for lightness. it requires circuitry and power. My homebrew paddle weighs 4.5 grams. 28 grams per ounce, that s

10668. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 14:36:17 UTC
From: TJ Campie
Topic: 10631 Message: 10668

Great Scott! please do tell us what you're using

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Mar 26, 2013 at 9:35 AM, cloud runner <just.one.hill@...>wrote:

> **
>
>
> **
> Touch key is *not* the "ultimate way to go for lightness." it
> requires circuitry and power. My homebrew paddle weighs 4.5 *grams*. 28
> grams per ounce, that's *.*16 of an ounce.
>
> 73 fred - kt5x
>
>
>
>
>

10669. [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 14:55:40 UTC
From: Joseph Trombino, Jr
Topic: 10631 Message: 10669

I should also mention that I've used a commercial electronic touchkeyer with the KX3 in the field and even with 4W RF got into both keyers I tried and messed things up.

My antenna was a PAR 40/20/10 EFHW at the time....not sure if that caused the problem but I wonder if others have used an electronic touchkeyer in the field successfully and what kind of antenna was used??

73, Joe W2KJ
I QRP, therefore I am

On Mar 26, 2013, at 10:11 AM, Joseph Trombino, Jr wrote:

>
> I'll be using my N3ZN ZN-QRP iambic paddle...it weighs just over one pound and is a sweet and smooth device...it stays put on my desk while sending Morse so I used it in the shack for several weeks until my ZN5 arrived.
>
> The ZN-QRP might be a tad heavy for the backpacker but my portable field ops are not of the backpacking variety (grin).
>
> 73, Joe W2KJ
> I QRP, therefore I am
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>
>
>>
>> Or....
>> http://w8cso.org/index.php?page=teneke
>>
>> Same price.
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>> NU6T
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>> On 3/25/2013 12:31 PM, Etienne Scott wrote:
>>>
>>> The Te Ne Ke is being sold on eBay:
>>> http://www.ebay.com/itm/Te-Ne-Ke-minature-morse-code-key-without-base-/140867796468?pt=US_Code_Keyers_Keys&hash=item20cc5ffdf4
>>>
>>> Etienne-K7ATN
>>>
>>> --- In AT_Sprint@yahoogroups.com, Mike Crownover <ad5a@...> wrote:
>>>>
>>>> The Te Ne Ke. Very light and once you get it set up, a very responsive key. It is made by a radio club up north which I can't recall, but google and you will get the information. I have two of them, one with base and one without.

>>>>
>>>> ----- Original Message -----
>>>> Â
>>>>
>>>>
>>>>
>>>>
>>>> With all the hoopla about getting a new MTR to build with regards to the tools to use, I'd be interested in what kind of small and light weight keys will be used out there. Homebrew? Commercially made?
>>>>
>>>> 72,
>>>>
>>>> Clark WU4B
>>>>
>>

10670. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 15:00:58 UTC
From: cloud runner
Topic: 10631 Message: 10670
Attachments: 1 described; binary payloads are missing from this source WARC

Great Scott! please do tell us what you're using

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

But I have told you ... it is a homebrew version of the micro-te-ne-ke.

Here is a photo of three paddles. The one at the bottom is the original micro-te-ne-ke and it weighs about four grams. The one in the middle I made and weighs about five grams, including the mount (which is a piece of metal with a nut epoxied on. This lets me mount it on the perfboard clipboard as seen here. The upper one is a more elegant version using cocobolo wood with the wiring imbedded inside having routed out grooves for the wires with a dremel tool. It uses the same connectors as the Palm, but reinforced with a drop of epoxy.

yes, I had to make, not buy, everything, but isn't that what QRP is about?

fred - kt5x

.

10671. total weight of SOTA carry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 15:03:48 UTC
From: cloud runner
Topic: 10671 Message: 10671
Attachments: 2 described; binary payloads are missing from this source WARC

I have my MTR mounted on the back of a 4 x 6 piece of perfboard. The perfboard recesses the vulnerable switches and supports paddle, clock, log sheet (3x5 card), and battery such that everything is pre-wired, set to go, in my left hand while either sending or logging with my right.

now ...

The perfboard clipboard, MTR, battery for three hours of operation, log, tethered space pen, 24 hr gmt clock, voltage controlling switches, LiPO powered amplified speaker, all taken together weigh ten ounces. My 21 foot carbon fiber mast weighs 7 ounces, collapse to 26 inches. The 20M EFHW wire, tuner, six feet of RG174 weighs five ounces, for a total 22 ounce carry.

fred - kt5x

aka WS0TA

10672. Re: [AT_Sprint] total weight of SOTA carry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 15:07:21 UTC
From: TJ Campie
Topic: 10671 Message: 10672
Attachments: 2 described; binary payloads are missing from this source WARC

That is awesome.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Mar 26, 2013 at 10:03 AM, cloud runner <just.one.hill@gmail.com>wrote:

> **
>
>
> **
> I have my MTR mounted on the back of a 4 x 6 piece of perfboard. The
> perfboard recesses the vulnerable switches and supports paddle, clock, log
> sheet (3x5 card), and battery such that everything is pre-wired, set to go,
> in my left hand while either sending or logging with my right.
>
> now ...
>
> The perfboard clipboard, MTR, battery for three hours of operation, log,
> tethered space pen, 24 hr gmt clock, voltage controlling switches, LiPO
> powered amplified speaker, all taken together weigh ten ounces. My 21 foot
> carbon fiber mast weighs 7 ounces, collapse to 26 inches. The 20M EFHW
> wire, tuner, six feet of RG174 weighs five ounces, for a total 22 ounce
> carry.
>
> fred - kt5x
>
> aka WS0TA
>
>
>
>
>
>
>
>

10673. EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 15:14:27 UTC
From: cloud runner
Topic: 10673 Message: 10673
Attachments: 1 described; binary payloads are missing from this source WARC

This is a homebrew version of the EFHW matching device used by PAR. It isn't all wine and roses. I find that changing the height of the end of the inverted-L as little as one foot changes the resultant tune from 1.08:1 to 1.3:1, for example. Also, the carbon fiber pole changes the apparent length of the wire compared to a fiberglass pole (by about a foot). Mike, KE5AKL, and Steve, WG0AT have both experimented successfully with a pre-tuned, fixed UNUN. I have nothing new to offer. I followed what I saw on the web.

But here is a less than one ounce UNUN with 6 feet of RG174 to go to the MTR which is hand-held, standing or sitting, a photo of which was included previously.

fred - kt5x

WS0TA

10674. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 15:18:17 UTC
From: Lee Hiers
Topic: 10631 Message: 10674

On Tue, Mar 26, 2013 at 10:35 AM, cloud runner <just.one.hill@...>wrote:

> Touch key is *not* the "ultimate way to go for lightness." it
> requires circuitry and power. My homebrew paddle weighs 4.5 *grams*. 28
> grams per ounce, that's *.*16 of an ounce.
>

I'll have to weigh mine - as I recall, it was in the .15 ounce neighborhood - and that's with an enclosure and cable. By building it into the radio's case it would weigh even less. See KC7FYS' version at http://www.flickr.com/photos/jonathancharles/2291295848/in/photostream/

If I were to build the keyer into the rig, I would put one pad on either side of a corner and not add all the solder Jonathan did...it would be super light, and mechanically more rugged with no moving parts, and you wouldn't have a cable to worry about breaking, and it would be a more natural keying motion for me.

Using the kit at http://www.cwtouchkeyer.com/P3W.htm is the easy way - you could save some weight and size by going homebrew with SMT if you really wanted to go small and light. As far as the power requirement goes, it's laughable at 2mA.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to * http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10675. Re: [Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 15:25:09 UTC
From: cloud runner
Topic: 10675 Message: 10675

That will compete ;-)

fred

-sing the kit at http://www.cwtouchkeyer.com/P3W.htm is the easy way - you could save some weight and size by going homebrew with SMT if you really wanted to go small and light. As far as the power requirement goes, it's laughable at 2mA.

73 de Lee
--
Lee Hiers, AA4GA

www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to
http://www.aa4ga.com/p/qrp-dxcc.html for more
.

10676. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 15:35:45 UTC
From: Gil G.
Topic: 10673 Message: 10676

Hello Fred,

What is the value of the capacitor? Core, turns? Thanks.

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 26, 2013, at 11:14 AM, cloud runner wrote:

>
> This is a homebrew version of the EFHW matching device used by PAR.

10677. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 15:40:28 UTC
From: Steven Weber
Topic: 10631 Message: 10677

Desktop 3D printers are becoming affordable. There is one sold by MakerBot for just $2,200.

Lets see, if one could print and sell 110 paddles for $20, it would pay for it's self. Humm, might just be worth the investment....

Steve KD1JV

10678. Re: Total weight of SOTA carry

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 15:43:28 UTC
From: Hank Greeb
Topic: 10671 Message: 10678

You REALLY like to travel Light! Great! (Maybe you need a couple goats
to pack comfort food, etc.?)

On 3/26/2013 11:03 AM, cloud runner wrote:
>
>
> I have my MTR mounted on the back of a 4 x 6 piece of perfboard. The
> perfboard recesses the vulnerable switches and supports paddle, clock,
> log sheet (3x5 card), and battery such that everything is pre-wired,
> set to go, in my left hand while either sending or logging with my right.
> now ...
> The perfboard clipboard, MTR, battery for three hours of operation,
> log, tethered space pen, 24 hr gmt clock, voltage controlling
> switches, LiPO powered amplified speaker, all taken together weigh ten
> ounces. My 21 foot carbon fiber mast weighs 7 ounces, collapse to 26
> inches. The 20M EFHW wire, tuner, six feet of RG174 weighs five
> ounces, for a total 22 ounce carry.
> fred - kt5x
> aka WS0TA

10679. Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 15:45:07 UTC
From: cloud runner
Topic: 10673 Message: 10679

I mimicked what I found on the web, and recommend that you experiment with the original rather than my clumsy exploration!

http://www.hamradio.me/antennas/lnr-precision-ef-102040mkii-examination.html

But I will tell you that since my core is different, I put a 4.7K resistor on for a dummy load, and varied the cap. The original design used a much different core and a 150 pf cap. In mine I found 90 pf worked better.

fred

----- Original Message -----
From: Gil G.
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, March 26, 2013 9:35 AM
Subject: Re: [AT_Sprint] EFHW tuner

Hello Fred,

What is the value of the capacitor? Core, turns? Thanks.

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 26, 2013, at 11:14 AM, cloud runner wrote:

This is a homebrew version of the EFHW matching device used by PAR.

10680. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 15:56:29 UTC
From: jgaffke
Topic: 10590 Message: 10680

Myron,

I wouldn't worry about MPPT unless the voltage at which
the panel gives maximum power is much higher than
the battery voltage. When going from 18 to 12 (typical)
the expense and complication is probably not worth the
upgrade from PWM/Linear.

The Micro M+ is a good choice for a ~12v PWM battery charger on
panels anywhere between 0 and 4 Amps, it wastes virtually
nothing to power itself. None of the heat of Linear, and
slow enough that it doesn't have the RF hash typical of PWM.
Mike says he'll probably have more kits by the end of April.
Read the article I pointed to and then without pestering Mike
too much (it's a hobby!) see if his website's up for kits:
http://www.sunlightenergysystems.com

If the panel cannot source the current requirement of the load,
you probably need a battery in there somewhere.
If by load you mean charging a battery, then what you really
need is time for the voltage in the battery to build up.

None of the solar panel battery chargers I've seen
do current limiting, including the 80 Amp MPPT jobs
costing the better part of $1K. If you put on enough panel
to exceed the Amp rating of the charger (be it PWM or MPPT)
you risk burning out the charger. You also want to make
sure you don't have too many panels for your battery, they
have a maximum charge rate in Amps as well.

The assumption has always been you would be starved for panels
at $5/watt. With some panels going for $0.50/watt on sunelec.com,
it might be time for them to rethink. Would be trivial to add
current sensing. I'd prefer extra panels, so I can avoid a
generator through iffy weeks. And a water heater dump load.

Excuse my punditry, head's been overflowing with this for months.
I'm in the process of moving to an off grid house in the wilds
of far NE Oregon, 2 hours from the nearest stoplight.

I can't recommend one central information source, figured out
what I have by scouring the web. And we know random sites on
the web are always right.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, WVÃ□H <s9plus@...> wrote:
> If I have a panel that cannot source the current requirement
> of the load, the MPPT configuration is the way to go.
> If however I have a large array that can source more than the
> load draws pretty much any regulator can work right?
> PWM higher efficiency, linear no RFI.

> Is there a website that covers all of the basics of charge controllers and is comprehensive enough to satisfy the EE in me.
>
> Thanks,
> Myron WVÃ□H
> Printed on Recycled Data
>
> On Mar 25, 2013, at 7:28 PM, WVÃ□H <s9plus@...> wrote:
>
> > Thanks Jerry, I'm just starting to understand this a bit more everyday now. Yeah, the general current consumption of QRP rigs these days is so small that any battery of any size will work for weeks! I wanted to just understand why an MPPT controller is better, now I know. I have seen some MPPT controllers for as little as $65 but I'm sure that Morningstar has some less expensive, or at least non-MPPT controllers.
> >
> > Thanks again.
> >
> > Myron WVÃ□H
> > Printed on Recycled Data
> >
> > On Mar 25, 2013, at 6:15 PM, "jgaffke" <jgaffke@...> wrote:
> >
> >>
> >> Myron,
> >>
> >> The AV3 is a fairly standard buck-boost switching power supply.
> >> It can efficiently convert a higher voltage to a lower voltage
> >> (and vice versa), trading volts for amps by making use of the
> >> flywheel effect an inductor has on current flow. But it is
> >> concerned only with regulating the output voltage.
> >>
> >> Assume you put a 15 watt panel on the input and
> >> a car battery discharged to 11 volts on the output.
> >> The power supply will try to give as much current
> >> as needed to bring the output up to 14 volts.
> >> The panel can't supply that much current, so the voltage
> >> from the panel into the power supply will drop until the
> >> current is down around the amp that the panel can manage.
> >> And voltage into the battery will be something a little over
> >> that 11 volts you started with, slowly building up over time.
> >> You'd be just as well off tying the panel directly to the battery,
> >> and disconnecting when the battery reaches a charged state.
> >> Or using a linear regulator, or it's chopper cousin the
> >> PWM regulator. A PWM regulator does not have an inductor, so

> >> does not have the efficiency of the AV3 switcher (or an MPPT
> >> charge controller) in converting a higher voltage to a
> >> lower voltage.
> >>
> >> If the AV3 had an adjustment for maximum current (it does not),
> >> you'd find as you fiddled with that knob that there's a setting
> >> for which the current into the battery peaked, at somewhat
> >> more current than you got just connecting the panel to the battery.
> >> But when the sun angle changes a bit and not as much light
> >> strikes the panel, you'd have to find that setting again.
> >> So you sit there with a voltmeter on the panel, continuously
> >> adjusting that maximum current knob, trying to keep the panel
> >> voltage somewhere near the Maximum Power Point for that panel.
> >> On panels built to charge a 12v battery through a PWM charge
> >> controller, that is typically around 18 volts. There are
> >> voltage losses through wires and charge controllers, and lead
> >> acid batteries occasionally should have an equalization voltage
> >> of 15 volts or so to reduce sulfate films on the plates, hence
> >> the extra 6 volts beyond what you might expect. An MPPT charge
> >> controller handles that current limit knob for you automatically,
> >> keeping the panel voltage up around 18 volts. In fact it
> >> automatically finds that special voltage (of 18 volts in my
> >> example) at which it gets maximum power from the panel,
> >> by constantly adjusting the current into the battery in
> >> search of the panels maximum power point.
> >>
> >> Way more than you wanted to know, I'm sure.
> >>
> >> > I don't understand why you want a solar collector at all, though.
> >>
> >> Fred,
> >>
> >> May not make too much sense on a days outing, but would if out
> >> for a month. Especially if you have other stuff using
> >> batteries. And some people just like to understand stuff.
> >>
> >> Jerry, KE7ER
> >>
> >> --- In AT_Sprint@yahoogroups.com, WVÃ□H <s9plus@> wrote:
> >> > Why won't the AV3 work on an 18-20 V panel?
> >>
> >> > On Mar 25, 2013, at 1:49 PM, "jgaffke" <jgaffke@> wrote:
> >> > > The AnyVolt3 is not going to do much good on a PV panel.
> >> > > It needs to monitor the input voltage as well, and keep that
> >> > > up in the region of maximum power for that panel. Otherwise
> >> > > it's no better than a linear regulator, and probably worse.
> >
> >
>

10681. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 16:16:09 UTC
From: Mike WA8BXN
Topic: 10673 Message: 10681

Hi Fred -

Thanks for the information. Looking at the picture in your previous message, I am confused. It looks like there is a red wire that shorts out the capacitor. Also the capacitor seems to have one end connected to where the halfwave wire would be connected, quite different from the web reference you give detailing LNR design. What am I not understanding?

73 - Mike WA8BXN

-------Original Message-------

From: cloud runner
Date: 3/26/2013 11:44:58 AM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: EFHW tuner

I mimicked what I found on the web, and recommend that you experiment with the original rather than my clumsy exploration!

http://www.hamradio.me/antennas/lnr-precision-ef-102040mkii-examination.html

But I will tell you that since my core is different, I put a 4.7K resistor on for a dummy load, and varied the cap. The original design used a much different core and a 150 pf cap. In mine I found 90 pf worked better.

Fred

10682. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 16:24:53 UTC
From: cloud runner
Topic: 10673 Message: 10682
Attachments: 1 described; binary payloads are missing from this source WARC

Yes, sorry, I sent you an early experiment photo. That is actually an AA5TB matcher with a fixed cap.

here is the photo of the set up that worked the best in that it is broader, more forgiving of differences in deployment (though both approaches were sensitive to such things as height of the end of the inverted L wire).

to be precise ... the antenna high impedance side is 28 turns on a FT50-43 core. The primary is three turns bifilar (green windings) with a 90 pf mica across it, across the RG174. I used a 4.7K resistor for a dummy, and varied the cap from 20 pf to 150 pf, and picked what seemed to be the best. THEN, I cut the wire for length that delivered 1.0:1 SWR with this matcher, in other wrods, cut the wire to deliver close to 4.7K impedance at the end ;-)

----- Original Message -----
From: Mike WA8BXN
To: AT Sprint
Sent: Tuesday, March 26, 2013 10:16 AM
Subject: Re: [AT_Sprint] Re: EFHW tuner

Hi Fred -

Thanks for the information. Looking at the picture in your previous message, I am confused. It looks like there is a red wire that shorts out the capacitor. Also the capacitor seems to have one end connected to where the halfwave wire would be connected, quite different from the web reference you give detailing LNR design. What am I not understanding?

73 - Mike WA8BXN

10683. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 17:17:47 UTC
From: Chris Maness
Topic: 10673 Message: 10683
Attachments: 1 described; binary payloads are missing from this source WARC

I just built a betterQRP edge tuner. It works VERY well.

73 KQ6UP Chris
On Mar 26, 2013 8:14 AM, "cloud runner" <just.one.hill@...> wrote:

> **
>
>
> This is a homebrew version of the EFHW matching device used by PAR. It
> isn't all wine and roses. I find that changing the height of the end of
> the inverted-L as little as one foot changes the resultant tune from 1.08:1
> to 1.3:1, for example. Also, the carbon fiber pole changes the apparent
> length of the wire compared to a fiberglass pole (by about a foot). Mike,
> KE5AKL, and Steve, WG0AT have both experimented successfully with a
> pre-tuned, fixed UNUN. I have nothing new to offer. I followed what I saw
> on the web.
>
> But here is a less than one ounce UNUN with 6 feet of RG174 to go to the
> MTR which is hand-held, standing or sitting, a photo of which was included
> previously.
>
> fred - kt5x
>
> WS0TA
>
>
>
>
>

10684. New MTR Kit arrived!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 17:26:54 UTC
From: n1rx
Topic: 10684 Message: 10684

The new MTR kit arrived today. It was a short hop across NH from Steve to me. The new case looks great!
Bruce, N1RX

10685. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 17:39:11 UTC
From: cloud runner
Topic: 10673 Message: 10685

This is something from Stu?

What's an "Edge Tuner?"

fred

I just built a betterQRP edge tuner. It works VERY well.

73 KQ6UP Chris

On Mar 26, 2013 8:14 AM, "cloud runner" <just.one.hill@...> wrote:

10686. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 17:39:51 UTC
From: TJ Campie
Topic: 10673 Message: 10686

I've got $20 on autocorrect...

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Mar 26, 2013 at 12:39 PM, cloud runner <just.one.hill@...>wrote:

> **
>
>
> **
> This is something from Stu?
>
> What's an "Edge Tuner?"
>
> fred
>
>
>
> ----
>
>
> I just built a betterQRP edge tuner. It works VERY well.
>
> 73 KQ6UP Chris
> On Mar 26, 2013 8:14 AM, "cloud runner" <just.one.hill@...> wrote:
>
>>
>

10687. Re: [AT_Sprint] New MTR Kit arrived!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 17:44:14 UTC
From: Johnny Matlock
Topic: 10684 Message: 10687

Rock on Bruce!
Good luck with the build!
72
Johnny AC0BQ

On Tuesday, March 26, 2013, n1rx wrote:

> **
>
>
> The new MTR kit arrived today. It was a short hop across NH from Steve to
> me. The new case looks great!
> Bruce, N1RX
>
>
>

10688. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 18:12:40 UTC
From: Chris Maness
Topic: 10673 Message: 10688

TJ one the $20 :D EFHW :D

Chris KQ6UP

On Tue, Mar 26, 2013 at 10:39 AM, TJ Campie <tom.campie@...> wrote:

>
>
> I've got $20 on autocorrect...
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Tue, Mar 26, 2013 at 12:39 PM, cloud runner <just.one.hill@...>wrote:
>
>> **
>>
>>
>> **
>> This is something from Stu?
>>
>> What's an "Edge Tuner?"
>>
>> fred
>>
>>
>>
>> ----
>>
>>
>> I just built a betterQRP edge tuner. It works VERY well.
>>
>> 73 KQ6UP Chris
>> On Mar 26, 2013 8:14 AM, "cloud runner" <just.one.hill@...> wrote:
>>
>>>
>
>
>
>

10689. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 18:14:39 UTC
From: Chris Maness
Topic: 10673 Message: 10689

Oops ^won *blush* terrible day.

Chris

On Tue, Mar 26, 2013 at 11:12 AM, Chris Maness <chris@...>wrote:

> TJ one the $20 :D EFHW :D
>
> Chris KQ6UP
>
>
> On Tue, Mar 26, 2013 at 10:39 AM, TJ Campie <tom.campie@...> wrote:
>
>>
>>
>> I've got $20 on autocorrect...
>>
>> 73, W0EA
>> TJ
>> ----
>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>> NAQCC #3768 | Flying Pigs QRP #2254
>> Elecraft KX3 SN 288
>> *Because QRO is too easy*
>>
>>
>> On Tue, Mar 26, 2013 at 12:39 PM, cloud runner <just.one.hill@...>wrote:
>>
>>> **
>>>
>>>
>>> **
>>> This is something from Stu?
>>>
>>> What's an "Edge Tuner?"
>>>
>>> fred
>>>
>>>
>>>
>>> ----
>>>
>>>
>>> I just built a betterQRP edge tuner. It works VERY well.
>>>
>>> 73 KQ6UP Chris

>>> On Mar 26, 2013 8:14 AM, "cloud runner" <just.one.hill@...> wrote:
>>>
>>>>
>>
>>
>>
>>
>
>

10690. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 18:14:24 UTC
From: TJ Campie
Topic: 10673 Message: 10690

I'm good in QRZ ;)

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Mar 26, 2013 at 1:12 PM, Chris Maness <chris@chrismaness.com> wrote:

> **
>
>
> TJ one the $20 :D EFHW :D
>
> Chris KQ6UP
>
>
> On Tue, Mar 26, 2013 at 10:39 AM, TJ Campie <tom.campie@...> wrote:
>
>>
>>
>> I've got $20 on autocorrect...
>>
>> 73, W0EA
>> TJ
>> ----
>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>> NAQCC #3768 | Flying Pigs QRP #2254
>> Elecraft KX3 SN 288
>> *Because QRO is too easy*
>>
>>
>> On Tue, Mar 26, 2013 at 12:39 PM, cloud runner <just.one.hill@...>wrote:
>>
>>> **
>>>
>>>
>>> **
>>> This is something from Stu?
>>>
>>> What's an "Edge Tuner?"
>>>
>>> fred

```
>>>
>>>
>>>
>>> ----
>>>
>>>
>>> I just built a betterQRP edge tuner. It works VERY well.
>>>
>>> 73 KQ6UP Chris
>>> On Mar 26, 2013 8:14 AM, "cloud runner" <just.one.hill@...> wrote:
>>>
>>>>
>>
>>
>>
>
>
```

10691. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 18:14:49 UTC
From: Lee Hiers
Topic: 10673 Message: 10691

On Tue, Mar 26, 2013 at 2:12 PM, Chris Maness <chris@...>wrote:

> TJ one the $20 :D
>
Does he get another 20 for "one"? ;-)

73 DE LEE

10692. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 18:32:23 UTC
From: Colin Tuckley
Topic: 10631 Message: 10692

On 26/03/13 15:40, Steven Weber wrote:

> Lets see, if one could print and sell 110 paddles for $20, it would pay for
> it's self. Humm, might just be worth the investment....

Don't forget the cost of the consumables. The filament that it uses to
build the object with is not cheap.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

Always draw your curves, then plot the data.

10693. Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 18:32:46 UTC
From: jgaffke
Topic: 10590 Message: 10693

--- In AT_Sprint@yahoogroups.com, WVÃ□H <s9plus@...> wrote:
> PWM higher efficiency

Oh, wrong on that count too.

PWM and linear give the same efficiency from a solar panel.
If the battery voltage is low, they both just turn on and
dump all available current from the panel into the battery,
dragging the panel voltage down to that of the battery.
With the lower panel voltage, the volts*amps from the panel
is not delivering as much power as the panel could with MPPT.

When the battery is nearly full, the linear limits the voltage
by dissipating power in the pass transistor. The PWM sends
pulses of all available current from the panel to the battery
with the duty cycle adjusted to regulate the battery voltage.
When PWM is not sending current to the battery that extra power
is winding as heat in the panel. But the panel's relatively
big, and only 10-15% efficient to begin with.

MPPT adds an inductor, so it can efficiently convert all
volts*amps from the panel down to the voltage the battery
actually needs. Like your AV3 switcher, except the MPPT
also has to keep the panel voltage up where the panel can
deliver its maximum power. PWM does not have that inductor.

> linear no RFI.

Yup. Though the Micro M+ should do just fine on that score
since it switches so slowly. The relatively long pulses of
current into the battery might work the battery a bit harder,
and the battery voltage might vary a bit more. But that's
easier to deal with than the RF hash from most PWM chargers.

Jerry, KE7ER

10694. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 18:44:06 UTC
From: Mike Olbrisch
Topic: 10673 Message: 10694

Auto-correct???

Vy73 - Mike - KD9KC.
El Paso, Texas. - DM61rt.
W5-SOTA Association Manager.
NA-SOTA Info: www.na-sota.org/

-------- Original message --------
From: Chris Maness <chris@chrismaness.com>
Date:
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] EFHW tuner

Oops ^won *blush* terrible day.

Chris

On Tue, Mar 26, 2013 at 11:12 AM, Chris Maness <chris@chrismaness.com> wrote:
TJ one the $20 :D EFHW :D

Chris KQ6UP

On Tue, Mar 26, 2013 at 10:39 AM, TJ Campie <tom.campie@gmail.com> wrote:

I've got $20 on autocorrect...

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Mar 26, 2013 at 12:39 PM, cloud runner <just.one.hill@gmail.com> wrote:

This is something from Stu?

What's an "Edge Tuner?"

fred

I just built a betterQRP edge tuner. It works VERY well.

73 KQ6UP Chris

On Mar 26, 2013 8:14 AM, "cloud runner" <just.one.hill@gmail.com> wrote:

10695. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 18:45:39 UTC
From: TJ Campie
Topic: 10673 Message: 10695

Smart phones (and some operating systems) automatically correct simple spelling errors, or what it perceives to be a spelling error.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Mar 26, 2013 at 1:44 PM, Mike Olbrisch <mike-2007@...> wrote:

> **
>
>
> Auto-correct???
>
> Vy73 - Mike - KD9KC.
> El Paso, Texas. - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA Info: www.na-sota.org/
>
>
>
>
> -------- Original message --------
> From: Chris Maness <chris@...>
> Date:
> To: AT_Sprint@yahoogroups.com
> Subject: Re: [AT_Sprint] EFHW tuner
>
>
> Oops ^won *blush* terrible day.
>
> Chris
>
> On Tue, Mar 26, 2013 at 11:12 AM, Chris Maness <chris@...>wrote:
>
>> TJ one the $20 :D EFHW :D
>>
>> Chris KQ6UP
>>
>>
>> On Tue, Mar 26, 2013 at 10:39 AM, TJ Campie <tom.campie@...> wrote:
>>

>>>
>>>
>>> I've got $20 on autocorrect...
>>>
>>> 73, W0EA
>>> TJ
>>> ----
>>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>>> NAQCC #3768 | Flying Pigs QRP #2254
>>> Elecraft KX3 SN 288
>>> *Because QRO is too easy*
>>>
>>>
>>> On Tue, Mar 26, 2013 at 12:39 PM, cloud runner <just.one.hill@...>wrote:
>>>
>>>> **
>>>>
>>>>
>>>> **
>>>> This is something from Stu?
>>>>
>>>> What's an "Edge Tuner?"
>>>>
>>>> fred
>>>>
>>>>
>>>>
>>>> ----
>>>>
>>>>
>>>> I just built a betterQRP edge tuner. It works VERY well.
>>>>
>>>> 73 KQ6UP Chris
>>>> On Mar 26, 2013 8:14 AM, "cloud runner" <just.one.hill@...>
>>>> wrote:
>>>>
>>>>>
>>>
>>>
>>>
>
>
>

10696. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 18:53:07 UTC
From: Hank Greeb
Topic: 10673 Message: 10696

It's called AutoMagically correcting errors of one's ways.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/26/2013 2:45 PM, TJ Campie wrote:
>
>
> Smart phones (and some operating systems) automatically correct simple
> spelling errors, or what it perceives to be a spelling error.
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*

10697. Japanise ham needs help understanding Tribander programming

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 20:06:23 UTC
From: Steven Weber
Topic: 10697 Message: 10697

I wonder if any of my friends from Japan might help Manabu AOKI, JE8JXU set up the band selection on his Tribander kit. He wants 40,20,15 but he selected 80,60,40, the first three bands in the sequence of selections.

I've tried to explain how to do the set up, but I think he really needs to hear it in his native language. If anyone can help, I can supply his email address.

Many thanks

Steve KD1JV

10698. Re: Japanise ham needs help understanding Tribander programming

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 21:44:48 UTC
From: katsumi.seto
Topic: 10697 Message: 10698

Hi Steve

I can hanle it. Let me know his e-mail address.

Though I have not got your authorization, I prepared the Japanese assembly manual and posted in a CW community forum in Japan (A1 club).

http://homepage3.nifty.com/VYG06610/A1C/Tribander/KD1JV_Tri-Bander_CW_TRCV_Assembly_Manual_J.pdf

de ja7qil/Katsu

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> I wonder if any of my friends from Japan might help Manabu AOKI, JE8JXU set
> up the band selection on his Tribander kit. He wants 40,20,15 but he
> selected 80,60,40, the first three bands in the sequence of selections.
>
> I've tried to explain how to do the set up, but I think he really needs to
> hear it in his native language. If anyone can help, I can supply his email
> address.
>
> Many thanks
>
> Steve KD1JV
>

10699. RE: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 21:51:41 UTC
From: Dale Putnam
Topic: 10673 Message: 10699

So why can't I have that on my paddle too? I NEED automagically spelling paddles.....

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: n8xx@...
Date: Tue, 26 Mar 2013 14:53:07 -0400
Subject: Re: [AT_Sprint] EFHW tuner

It's called AutoMagically correcting errors of one's ways.

72/73 de n8xx Hg

QRP >99.44% of the time

On 3/26/2013 2:45 PM, TJ Campie wrote:

Smart phones (and some operating systems)
automatically correct simple spelling errors, or what
it perceives to be a spelling error.

73, W0EA

TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T

NAQCC #3768 | Flying Pigs QRP #2254

Elecraft KX3 SN 288

Because QRO is too easy

10700. Re: [AT_Sprint] EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 23:12:35 UTC
From: Johnny Matlock
Topic: 10673 Message: 10700

Heck of an idea Dale,
Invent that and your rich!!
72
Johnny AC0BQ

On Tuesday, March 26, 2013, Dale Putnam wrote:

> **
>
>
> So why can't I have that on my paddle too? I NEED automagically spelling
> paddles.....
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> ----------
> To: AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint@yahoogroups.com');>
> From: n8xx@... <javascript:_e({}, 'cvml', 'n8xx@...');>
> Date: Tue, 26 Mar 2013 14:53:07 -0400
> Subject: Re: [AT_Sprint] EFHW tuner
>
>
> It's called AutoMagically correcting errors of one's ways.
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>
> On 3/26/2013 2:45 PM, TJ Campie wrote:
>
> Smart phones (and some operating systems) automatically correct simple
> spelling errors, or what it perceives to be a spelling error.
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288

> *Because QRO is too easy*
>
>
>
>

10701. Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 23:22:33 UTC
From: reed2web
Topic: 10673 Message: 10701

Fred ...

Your matcher sounds like a well thought-out project. I understand from your posts: The core is FT50-43, 3T on the primary, 28T on the secondary, bifilar winding, and a 90pf capacitor across the primary.

If you don't mind fielding further questions, here are a few more:

(1) Is it for 20M?
(2) When you got done pruning the wire, how much longer (or shorter) was it than the standard length?
(3) I think you said something about a counterpoise. How long? (0.05 wave-length?)
(4) Given that it is not the resonant style of matcher, will the circuit work over a wide enough range of conditions, such that a person could tune it at home and then use it on the trail without a SWR indicator with the MTR?
(5) Assuming a tuned half-wave wire, will it work on 30M and 40M with respectable SWR?
(6) What gauge wire did you use on the primary and secondary?
(7) Any thoughts or measurements regarding efficiency?

The above info will be very useful, as I am leaning toward giving it a try.

Thanks ... Reed K7FLY

10702. Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 01:24:45 UTC
From: cloud runner
Topic: 10673 Message: 10702

Please understand, I am not an engineer, and this is a work in progress. KE5AKL, WG0AT, and I are all playing with one form or another of no tune matching devices for the end-fed wires.

The one I built, a miniature version similar to the 100 watt device once sold by PAR, maybe still, and also sold in QRP version by I think LNR, mine is what I have on hand so not identical at all, is suppose to work with end-fed halfwaves from 15 through 40 meters. I have only tried mine so far on 20 meters.

No, I have never used any counterpoise with any endfed halfwave. I think that you can get away without them at QRP power levels. Anyway, I have experimented with counter poises of variouslengths, and not was carrying any current.

While I have found it to detune when I change the height of the end of the wire above ground, it usually stays under 1.5:1.

It is said that the varicon tuning capacitor used in some tuners are very inefficient when used in the high impedance end of the transformer.

I use 24 gauge teflon insulated wire.

Today, i activated a SOTA peak with this set up. I ran the MTR at 11 volts which produces 5 watts out for me. The transistors ran cool to the touch, so the matcher must have been doing its job. Signal reports were very good, many S-7 to S-9.

Incidentally, the MTR produced 40 QSO's on the SOTA today, for an average of 3.4 mAH per QSO

73 fred - kt5x (WS0TA)

Fred ...

Your matcher sounds like a well thought-out project. I understand from your posts: The core is FT50-43, 3T on the primary, 28T on the secondary, bifilar winding, and a 90pf capacitor across the primary.

If you don't mind fielding further questions, here are a few more:

(1) Is it for 20M?
(2) When you got done pruning the wire, how much longer (or shorter) was it than the standard length?
(3) I think you said something about a counterpoise. How long? (0.05 wave-length?)
(4) Given that it is not the resonant style of matcher, will the circuit work over a wide enough range of conditions, such that a person could tune it at home and then use it on the trail without a SWR indicator with the MTR?
(5) Assuming a tuned half-wave wire, will it work on 30M and 40M with respectable SWR?
(6) What gauge wire did you use on the primary and secondary?
(7) Any thoughts or measurements regarding efficiency?

The above info will be very useful, as I am leaning toward giving it a try.

Thanks ... Reed K7FLY

10703. RE: [AT_Sprint] Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 03:04:26 UTC
From: Mike Olbrisch
Topic: 10590 Message: 10703

Two words.... NORTH KOREA! <grin>. They are going to destroy us, dont ya know..... just watch the news.

I have been on camping trips where there was no convenient way to charge anything. A good solar panel and some other parts, and you can get by for several days easy. In fact, I sometimes connect a 10-watt panel to the battery of my jeep, I do not drive it very often and it keeps the battery up.

I have a 40-watt thin-flexible panel that folds up to the size of a notebook. Weighs 3 pounds, not bad, but still heavy for a single day's outing. A spare battery or three is far lighter than the panel. Even a spare battery for the FT-817 is still lighter.

Talk about weight..... a funny story.... I was camping up in the Gila Wilderness. Parts of it really are wilderness. Me, my wife, one Great Dane, and my son who just returned from Iraq. This was a decompression trip for him. We drove in to town for something.... and when we returned there was another tent near us.... but curiously no car. I saw a lady outside working on something, so I went to offer her some help. I asked if their car broke down, and offered help, tools and a ride if they needed.

She told me they were doing the continental divide trail, they had no car. So I offered her a couple of cold sodas, figuring that was something they didn't pack. She accepted. But a short while later she returned the sodas un-opened. She said the cans were too heavy to carry out as trash. They only had 1 small flashlight.

I smiled and pointed to our 1-ton Ford van, told her it hauled trash just fine. She could toss the empty cans in my trash, and anything else they needed to dispose of. She was quite happy. We welcomed them to join us at our fire, and kinda just enjoyed the visit. The next morning they were off, and a bit lighter in pack weight too.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of luke_308
Sent: Monday, March 25, 2013 21:37
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Solar charging for MTR.

"I don't understand why you want a solar collector at all, though": Because not everybody returns to their cozy shack to recharge their batteries after every outing, or because your standard plug-in charge controller is rendered useless if the next natural disaster or military attack knocks the power

grid offline for any significant amount of time, or maybe I just think it's fun to use a natural, inexpensive and virtually endless power supply to run my toys...

Luke
KD0FIN

--- In AT_Sprint@yahoogroups.com, "cloud runner" <just.one.hill@...> wrote:
>
> Perhaps another question might be, why would you want it to work? Why not use a proper charge controller which at that amperage would cost less than half as much as the anyvolt?
>
> See if you can find the Micro M+ charge controller kit.
>
> I don't understand why you want a solar collector at all, though. The MTR uses so little current, that a 3 oz LiPO will power it for about three hours of continuous operation. An 8 oz LiPO will power it for 24 hours of operation EZ.
>
> 73 fred - kt5x
>
> -
>
> Why won't the AV3 work on an 18-20 V panel?
>
> Myron WVÃ□H
> Printed on Recycled Data
>
> On Mar 25, 2013, at 1:49 PM, "jgaffke" <jgaffke@...> wrote:
>
>
>
> The AnyVolt3 is not going to do much good on a PV panel.
> It needs to monitor the input voltage as well, and keep that
> up in the region of maximum power for that panel. Otherwise
> it's no better than a linear regulator, and probably worse.
>
> --- In AT_Sprint@yahoogroups.com, WVÃ□H <s9plus@> wrote:
> > ...can the Escape 30 be attached to the input of an AnyVolt3...
>
> Regarding that $14 HF panel:
>
> The red HF panels I got were designed for a 12v lead acid battery.
> This new one claims to be good for a 12v or 24v battery. No
> switch, so might waste more power than my red one on a 12v load.
> Many of the reviews talk about how it warps into a pretzel when
> left in the dash. Cool if true, means it's built all of
> lightweight plastic. The boilerplate in the manual is quite
> amusing. Suggests you hire a qualified electrician if doing a

> grid tie. And how big a wire you need to carry 200 Amps. Nothing
> informative, like weight, Vmp or Voc (max power, open circuit).
>
> --- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@> wrote:
> > Here's a $14 1W solar panel, often on sale for less...
> >
http://www.harborfreight.com/15-watt-solar-battery-charger-68692.html
>
> And here's some nice but very spendy rollables:
> http://californiapc.com/index.php?l=product_list&c=174
>
> Jerry, KE7ER
>

Yahoo! Groups Links

10704. RE: [AT_Sprint] Re: Solar charging for MTR.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 03:33:57 UTC
From: Gil G.
Topic: 10590 Message: 10704

Hello,

Well, I went with the Goal Zero 7W solar panel that recharges four AA NiMH cells at a time... Got an eight-cell battery holder and sixteen 2850mAh batteries.. The LiPo solution was starting to look a bit too pricey and complicated. I opted for cheap & simple. Using AAs will also allow me to power other small devices, and recharge my iPod with the USB cable.

You guys who use the MTR with eight cells, how long do you get?

Thanks to all the replies by the way :-)

Gil.

10705. Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 11:41:01 UTC
From: bill_w4zv
Topic: 10673 Message: 10705

The Par/LNR "Multiband QRP" matchbox covers 10m also. It resonates the supplied 20m element as a full wave on 10m since the full wave impedance is similar to half wave impedance, although this results in a higher takeoff angle when mounted vertically and multiple azimuthal lobes when mounted horizontally.

The original EF-20/40 (Par's first broadband unit) was rated at 25 Watts (I've had one since 2004). Their latest "Multiband 100W" EF-20/40 is rated at 100W (NOT the "Multiband QRP" EF-10/20/40MKII which is still rated at 25W). As you said you can use their "Multiband QRP" matchbox for any halfwave from 10-40m but I'm not sure that applies to their current "Multiband 100W" EF-20/40. See the full lineup below which should clear up any confusion:

http://www.lnrprecision.com/endfedz-specs/

Larry AE4LD is the owner of LNR and attended our SOTA Forum at the Charlotte Hamfest a few weeks ago. He has greatly expanded the Par product line since purchasing it over from Dale W4OP a few years ago.

73, Bill W4ZV

--- In AT_Sprint@yahoogroups.com, "cloud runner" <just.one.hill@...> wrote:
>
> Please understand, I am not an engineer, and this is a work in progress. KE5AKL, WG0AT, and I are all playing with one form or another of no tune matching devices for the end-fed wires.
>
> The one I built, a miniature version similar to the 100 watt device once sold by PAR, maybe still, and also sold in QRP version by I think LNR, mine is what I have on hand so not identical at all, is suppose to work with end-fed halfwaves from 15 through 40 meters. I have only tried mine so far on 20 meters.
>
> No, I have never used any counterpoise with any endfed halfwave. I think that you can get away without them at QRP power levels. Anyway, I have experimented with counter poises of variouslengths, and not was carrying any current.
>
> While I have found it to detune when I change the height of the end of the wire above ground, it usually stays under 1.5:1.
>
> It is said that the varicon tuning capacitor used in some tuners are very inefficient when used in the high impedance end of the transformer.
>
> I use 24 gauge teflon insulated wire.
>
> Today, i activated a SOTA peak with this set up. I ran the MTR at 11 volts which produces 5 watts out for me. The transistors ran cool to the touch, so the matcher must have been doing its job. Signal reports were very good, many S-7 to S-9.
>

>
> Incidentally, the MTR produced 40 QSO's on the SOTA today, for an average of 3.4 mAH per QSO
>
> 73 fred - kt5x (WS0TA)
>
>
>
>
>
> Fred ...
>
> Your matcher sounds like a well thought-out project. I understand from your posts: The core is FT50-43, 3T on the primary, 28T on the secondary, bifilar winding, and a 90pf capacitor across the primary.
>
> If you don't mind fielding further questions, here are a few more:
>
> (1) Is it for 20M?
> (2) When you got done pruning the wire, how much longer (or shorter) was it than the standard length?
> (3) I think you said something about a counterpoise. How long? (0.05 wave-length?)
> (4) Given that it is not the resonant style of matcher, will the circuit work over a wide enough range of conditions, such that a person could tune it at home and then use it on the trail without a SWR indicator with the MTR?
> (5) Assuming a tuned half-wave wire, will it work on 30M and 40M with respectable SWR?
> (6) What gauge wire did you use on the primary and secondary?
> (7) Any thoughts or measurements regarding efficiency?
>
> The above info will be very useful, as I am leaning toward giving it a try.
>
> Thanks ... Reed K7FLY
>

10706. 2nd Run MTR alignment.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 13:12:24 UTC
From: Colin
Topic: 10706 Message: 10706

I was lucky enough to build one of the first run MTR's.

I've been reading the new MTR manual in readiness to receive the new kit. I'm particularly interested in the calibration procedure.

When I built my MTR last year, I remember measuring the response of the crystal filter using an O'scope and stepping the LO through the filter with the up / down buttons to find each 'end' of the filter. The number of clicks of the tune buttons from end to end of the filter was then divided by two to find the centre frequency of the crystal filter. To finish the procedure, the BFO trimmer was peaked for maximum audio out.

I've noticed that the above stated instructions are longer included in the new MTR manual. I'm assuming as the parts tolerances are expected to be very good, so that the starting off point before any calibration will be pretty good, that the above step is no longer required.

My question is - Would it still be beneficial to follow the original instructions to get everything 'spot-on'?

73, Colin
M0CGH

10707. Re: New MTR Kit arrived!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 17:46:48 UTC
From: f4gha
Topic: 10684 Message: 10707

Great news Bruce,
I hope to receive mine very soon !
Best 73 to all.
Loïc, FY8PE.

10708. Re: [AT_Sprint] MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-26 19:05:39 UTC
From: Clark Macaulay
Topic: 10665 Message: 10708

Fred, I see you chose 30m and 20m for the MTR frequencies but mention only a 20m EFHW. Do you use 30m much? If you had it to do over would you still choose 30m instead of 40m?

72,

Clark WU4B

On Tue, Mar 26, 2013 at 10:25 AM, cloud runner <just.one.hill@...>wrote:

> **
>
>
> **
> measurements made with the QRP-O-Meter ...
>
> 10 volts = 4.0 watts out
>
> 10.5 volts = 5.0 watts out
>
> 12.4 volts = 5.75 watts out
>
>
> I use a 500 mAH LiPO battery that will power the radio for about three
> hours. This battery weighs less than two ounces. I also have a 1,000 mAH
> battery which weighs about 3 ounces and would power the radio about five
> hours, and a 2.2 AH LiPO that weighs 8 ounces and which would power the
> radio for something like 12 hours of continuous use with a lot of
> transmitting.
>
> I have two sub-mini toggles between the battery and the radio. one
> introduces a single diode and point seven volts drop and the other
> introduces three diodes in series or 2.1 volt drop. Together can get 2.8
> volt drop, or into the nine volt range.
>
> The battery fully charged produces 12.4 volts, but quickly drops to 11.6
> volts where it is flat for a long time.
>
> So ... I can keep the voltage below 10 volts for tuning up. And clearly,
> there is no reason to run the voltage any higher than 10.5 or 11 volts for
> full output.
>
> I'll have this radio on a SOTA peak later today, 2000z on 14.061 using the
> call sign WS-zero-TA, WS0TA/
>
> 73, fred- kt5x

>
>
>
>
>

--
72,

Clark WU4B

*"It is vain to do with more what can be done with less."-- *William of Occam (1288 AD - 1348 AD)

10709. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 07:10:28 UTC
From: Earle Craig
Topic: 10631 Message: 10709

I am fairly new to this group and to small semiconductor radio design, and I have a few questions in the light of a couple of the recent threads--

1. Steve, in response to the information about the Etherkit CC1, you mentioned the transmitter circuit that you invented 10 years ago that provides the shaping of the output signal. Just curious what components on the schematic of this latest MTR comprise this circuit? And how does it work? I just built a qrpkits Ft Tuthill 15 and, using the computer program TINA, have been trying to model and analyze the effects of its "Finals V+ Supply Rise/Fall Shaping" circuit, which I assume is intended to accomplish the same purpose as the circuit you mentioned (?). Also, do you ever use a CAD modeling program, and, if so, which one?

2. Steve, what are your thoughts on using the Silicon Labs Si570 Crystal Oscillator in your ATS series and MTR series rigs instead of the AD9834 DDS? And a QSD Tayloe mixer or just a single capacitor detector as in the Ft Tuthill 15?

3. Has anyone used both the Palm Radio Mini-Paddle and the American Morse Porta-Paddle, and how would you compare the two?

Thanks to everyone for the wealth of information shared in this group and, in advance, for answering these questions and helping me to understand more of this great hobby of ours,

Earle
AB6WL

10710. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 13:29:00 UTC
From: Lee Hiers
Topic: 10631 Message: 10710

On Wed, Mar 27, 2013 at 3:10 AM, Earle Craig <ecraig@...> wrote:

> 3. Has anyone used both the Palm Radio Mini-Paddle and the American Morse
> Porta-Paddle, and how would you compare the two?
>

I don't like the "springiness" in the Palm Paddle, so I got a PortaPaddle.
It's not too bad, but needs to be anchored to use - I'm using a leg strap
I made from a velcro strip...it really needs to be more stable than that
for me, which is why some of my SOTA sending is a little wonky. But it's
not so bad that I've tried too hard to figure out a better solution.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10711. Re: [AT_Sprint] MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 13:44:04 UTC
From: cloud runner
Topic: 10665 Message: 10711

I was exploring the use of the fixed matching unit, and had only preprared a 20M EFHW wire exactly tuned to match up with that device. I also have a 20/30 trapped wire, but have not tested/tuned it for the fixed matching device yet.

Yes, i would choose 30M. Most SOTA activations take place in summer and mid-day since one has to drive, hike, and set up. 40M mid-day in summer presents high absorption making 40M very difficult. Out here in the Rockies, there may be no one, zero contacts, on 40M under such circumstances.

73, fred - kt5x (aka WS0TA)

Fred, I see you chose 30m and 20m for the MTR frequencies but mention only a 20m EFHW. Do you use 30m much? If you had it to do over would you still choose 30m instead of 40m?

72,

Clark WU4B

On Tue, Mar 26, 2013 at 10:25 AM, cloud runner <just.one.hill@...> wrote:

measurements made with the QRP-O-Meter ...

10 volts = 4.0 watts out

10.5 volts = 5.0 watts out

12.4 volts = 5.75 watts out

I use a 500 mAH LiPO battery that will power the radio for about three hours. This battery weighs less than two ounces. I also have a 1,000 mAH battery which weighs about 3 ounces and would power the radio about five hours, and a 2.2 AH LiPO that weighs 8 ounces and which would power the radio for something like 12 hours of continuous use with a lot of transmitting.

I have two sub-mini toggles between the battery and the radio. one introduces a single diode and point seven volts drop and the other introduces three diodes in series or 2.1 volt drop. Together can get 2.8 volt drop, or into the nine volt range.

The battery fully charged produces 12.4 volts, but quickly drops to 11.6 volts where it is flat for a long time.

So ... I can keep the voltage below 10 volts for tuning up. And clearly, there is no reason to run the voltage any higher than 10.5 or 11 volts for full output.

I'll have this radio on a SOTA peak later today, 2000z on 14.061 using the call sign WS-zero-TA, WS0TA/

73, fred- kt5x

--
72,

Clark WU4B

"It is vain to do with more what can be done with less."-- William of Occam (1288 AD - 1348 AD)

10712. Re: [AT_Sprint] MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 14:08:58 UTC
From: Lee Hiers
Topic: 10665 Message: 10712

On Wed, Mar 27, 2013 at 9:44 AM, cloud runner <just.one.hill@...>wrote:

Yes, i would choose 30M. Most SOTA activations take place in summer and
> mid-day since one has to drive, hike, and set up. 40M mid-day in
> summer presents high absorption making 40M very difficult. Out here in the
> Rockies, there may be no one, zero contacts, on 40M under such
> circumstances.
>

I'm still not convinced, although that is the way I was leaning. It could be a difference between the Southeast and the Rockies though.

I had a number of failed SOTA activation attempts last summer due to lightning. In our corner of the country, thunderstorms are an almost daily occurrence during the summer...they often start as early as 11 am (or even earlier). I don't want to be on a mountain when a T-storm comes through, and was not able to reliably plan an activation around the WX until fall. By then, 40m worked fine here during the day with many "local" contacts. I also wonder if it could just be regional - with the greater population density in the East, 40m may just be more viable year 'round for us.

And I'm concerned that 30m isn't "local enough".

I suppose I could try one or the other and then change my band selection if it just didn't work out like I'd like. I haven't looked at the manual, but there should only be a few caps and a couple of toroids to change, along with the band-change resistor, correct?

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10713. Re: [AT_Sprint] MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 14:16:20 UTC
From: Barry N1EU
Topic: 10665 Message: 10713

I've only activated a few times on 30M, but one reason I'm leaning toward 30M is that QRM, whether unintentional or intentional, seems far too prevalent on 40M cw. Also, 30M means a smaller wire antenna or better AlexLoop (my snow antenna) efficiency.

Barry N1EU

On Wed, Mar 27, 2013 at 2:08 PM, Lee Hiers <lee.hiers@...> wrote:

> **
>
>
> On Wed, Mar 27, 2013 at 9:44 AM, cloud runner <just.one.hill@...>wrote:
>
> Yes, i would choose 30M. Most SOTA activations take place in summer and
>> mid-day since one has to drive, hike, and set up. 40M mid-day in
>> summer presents high absorption making 40M very difficult. Out here in the
>> Rockies, there may be no one, zero contacts, on 40M under such
>> circumstances.
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> I'm still not convinced, although that is the way I was leaning. It could
> be a difference between the Southeast and the Rockies though.
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> lightning. In our corner of the country, thunderstorms are an almost daily
> occurrence during the summer...they often start as early as 11 am (or even
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> I also wonder if it could just be regional - with the greater population
> density in the East, 40m may just be more viable year 'round for us.
>
> And I'm concerned that 30m isn't "local enough".
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> I suppose I could try one or the other and then change my band selection
> if it just didn't work out like I'd like. I haven't looked at the manual,
> but there should only be a few caps and a couple of toroids to change,
> along with the band-change resistor, correct?
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your totals to the unofficial QRP DXCC standings - go to *

> http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
>
>
>
>

10714. Re: [AT_Sprint] MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 14:19:14 UTC
From: Lee Hiers
Topic: 10665 Message: 10714

On Wed, Mar 27, 2013 at 10:16 AM, Barry N1EU <n1eu.barry@...> wrote:

> 30M means a smaller wire antenna
>

Yes indeed - one of the big reasons I'm interested in 30m!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10715. Re: [AT_Sprint] MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 14:20:11 UTC
From: cloud runner
Topic: 10665 Message: 10715

Yes, it may be regional. You have a MUCH higher population density. And the earlier in the AM you activate, the better your chances, reduced absorption. I can call CQ on 40M, QRP, mid-day and work no one, zero, nada.

30M has a very significant skip-zone. it varies a lot but is typically several hundred miles.

fred

10716. Re: [AT_Sprint] 2nd Run MTR alignment.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 15:30:01 UTC
From: Steven Weber
Topic: 10706 Message: 10716

I was going to eliminate the calibration all together assuming the 20 ppm clocks would be "close enough", but in the end decided to leave well enough alone and kept the calibration routines as they always were. I thought I had restored the manual back to original also, but I guess that step didn't get back in.

So, if you want to see if you can center the LO in the filter better than the default values do, go ahead. Otherwise, leave well enough alone...

Steve KD1JV

> I've noticed that the above stated instructions are longer included in the
> new MTR manual. I'm assuming as the parts tolerances are expected to be
> very good, so that the starting off point before any calibration will be
> pretty good, that the above step is no longer required.
>
> My question is - Would it still be beneficial to follow the original
> instructions to get everything 'spot-on'?
>

10717. Re: [AT_Sprint] 2nd Run MTR alignment.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 15:31:21 UTC
From: TJ Campie
Topic: 10706 Message: 10717

When I built mine (first run) it was really close as is. I did calibrate mine and it's dead on now, but most people could probably get by.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Mar 27, 2013 at 10:30 AM, Steven Weber <steve.kd1jv@...>wrote:

> **
>
>
> I was going to eliminate the calibration all together assuming the 20 ppm
> clocks would be "close enough", but in the end decided to leave well
> enough
> alone and kept the calibration routines as they always were. I thought I
> had
> restored the manual back to original also, but I guess that step didn't
> get
> back in.
>
> So, if you want to see if you can center the LO in the filter better than
> the default values do, go ahead. Otherwise, leave well enough alone...
>
> Steve KD1JV
>
>
> > I've noticed that the above stated instructions are longer included in
> the
> > new MTR manual. I'm assuming as the parts tolerances are expected to be
> > very good, so that the starting off point before any calibration will be
> > pretty good, that the above step is no longer required.
> >
> > My question is - Would it still be beneficial to follow the original
> > instructions to get everything 'spot-on'?
> >
>
>
>

10718. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 15:50:49 UTC
From: Steven Weber
Topic: 10631 Message: 10718

1, The wave shaping isn't original with me, it has been used with Class C transistor transmitters for some time and for the same reason. The square wave driven mosfet or a Class C amplifier has no linear region so they simply turn on and off. Signals which have fast turn on and turn off times (like squarewaves) have a large harmonic content and therefore increased bandwidth. To help reduce that, the supply is ramped up and down, typically at about a 5 ms rate.

The one difference is taht in the bi-polar transistor Class C transmitter, it is possible to only ramp the supply for the driver up and down, which requires a minimum of current. With the logic gate transmitter, that is not possible because they have very well defined and very narrow switching points, where they are either on or off. That is what helps make them more efficent. But that means instead of controlling the voltage going to the driver, it must be done at the PA, at much higher current. The circuit which does that in the MTR and ATS rigs is a P channel power mosfet, which is in series between the PA fets and supply voltage. The RC network from the gate to drain and source makes it an intergrater, resulting in a 5 ms linear ramp.

No, I do not use a CAD modeling program. Don't have the time to fool with that.

2, The problem with the Si570 is that it draws like 100 ma all by it's self. It's also a real pain in the butt to calculate the desired output frequency and load it. The thing was really designed to be programmed once and then left alone. It also has a fairly high mininum output freqency, which is okay if your dividing it by 4 for a clock in a direct conversion phasing SDR receiver, but not so good for our application. Thier also pretty expensive and not easy to get.

Unless you can intergrate a DSP chip into the rig, doing direct conversion is not worth it when a simple super heterodyne with xtal filter works so much better.

3, I don't own either paddle so can't comment.

1. Steve, in response to the information about the Etherkit CC1, you mentioned the transmitter circuit that you invented 10 years ago that provides the shaping of the output signal. Just curious what components on the schematic of this latest MTR comprise this circuit? And how does it work? I just built a qrpkits Ft Tuthill 15 and, using the computer program TINA, have been trying to model and analyze the effects of its "Finals V+ Supply Rise/Fall Shaping" circuit, which I assume is intended to accomplish the same purpose as the circuit you mentioned (?). Also, do you ever use a CAD modeling program, and, if so, which one?

2. Steve, what are your thoughts on using the Silicon Labs Si570 Crystal Oscillator in your ATS series and MTR series rigs instead of the AD9834 DDS? And a QSD Tayloe mixer or just a single capacitor detector as in the Ft Tuthill 15?

3. Has anyone used both the Palm Radio Mini-Paddle and the American Morse Porta-Paddle, and how would you compare the two?

Thanks to everyone for the wealth of information shared in this group and, in advance, for answering these questions and helping me to understand more of this great hobby of ours,

Earle
AB6WL

10719. Re: [AT_Sprint] 2nd Run MTR alignment.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 15:56:35 UTC
From: Colin Evans
Topic: 10706 Message: 10719

OK, thanks for your answers Steven and TJ.

I guess I'll see how it goes by just peaking the BFO trimmer.

72, Colin

10720. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 15:59:09 UTC
From: mdweezer
Topic: 10631 Message: 10720

For anyone interested in the Si570 - a group buy has been organized as there's a hefty discount on bulk orders. So you can grab one for $14 vs. $25. Ends in a week.

https://www.tindie.com/shops/TAUTIC/si570-xo-programmable-oscillator/

That said - I'm anticipating building a little DIY paddle for portable use. I have an extra set of aluminum finger pieces from Begali that I plan on using and I'll likely construct it from PCB board that I can etch and solder a jack to.

Anticipating MTR #79 (from recent batch anyway) as early as today. I plan on a small blog post with some comparison pictures of the case. Just need something to compare it to! Excited!

73,
-Matt, W2MDW

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> 1, The wave shaping isn't original with me, it has been used with Class C transistor transmitters for some time and for the same reason. The square wave driven mosfet or a Class C amplifier has no linear region so they simply turn on and off. Signals which have fast turn on and turn off times (like squarewaves) have a large harmonic content and therefore increased bandwidth. To help reduce that, the supply is ramped up and down, typically at about a 5 ms rate.
>
> The one difference is taht in the bi-polar transistor Class C transmitter, it is possible to only ramp the supply for the driver up and down, which requires a minimum of current. With the logic gate transmitter, that is not possible because they have very well defined and very narrow switching points, where they are either on or off. That is what helps make them more efficent. But that means instead of controlling the voltage going to the driver, it must be done at the PA, at much higher current. The circuit which does that in the MTR and ATS rigs is a P channel power mosfet, which is in series between the PA fets and supply voltage. The RC network from the gate to drain and source makes it an intergrater, resulting in a 5 ms linear ramp.
>
> No, I do not use a CAD modeling program. Don't have the time to fool with that.
>
> 2, The problem with the Si570 is that it draws like 100 ma all by it's self. It's also a real pain in the butt to calculate the desired output frequency and load it. The thing was really designed to be programmed once and then left alone. It also has a fairly high mininum output freqency, which is okay if your dividing it by 4 for a clock in a direct conversion phasing SDR receiver, but not so good for our application. Thier also pretty expensive and not easy to get.
>
> Unless you can intergrate a DSP chip into the rig, doing direct conversion is not worth it when a simple super heterodyne with xtal filter works so much better.

>
> 3, I don't own either paddle so can't comment.
>
>
> 1. Steve, in response to the information about the Etherkit CC1, you mentioned the transmitter circuit that you invented 10 years ago that provides the shaping of the output signal. Just curious what components on the schematic of this latest MTR comprise this circuit? And how does it work? I just built a qrpkits Ft Tuthill 15 and, using the computer program TINA, have been trying to model and analyze the effects of its "Finals V+ Supply Rise/Fall Shaping" circuit, which I assume is intended to accomplish the same purpose as the circuit you mentioned (?). Also, do you ever use a CAD modeling program, and, if so, which one?
>
>
> 2. Steve, what are your thoughts on using the Silicon Labs Si570 Crystal Oscillator in your ATS series and MTR series rigs instead of the AD9834 DDS? And a QSD Tayloe mixer or just a single capacitor detector as in the Ft Tuthill 15?
>
>
> 3. Has anyone used both the Palm Radio Mini-Paddle and the American Morse Porta-Paddle, and how would you compare the two?
>
>
> Thanks to everyone for the wealth of information shared in this group and, in advance, for answering these questions and helping me to understand more of this great hobby of ours,
>
>
> Earle
> AB6WL
>

10721. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 16:28:24 UTC
From: Lee Hiers
Topic: 10631 Message: 10721

On Wed, Mar 27, 2013 at 11:59 AM, mdweezer <matthew.d.williams@...>wrote:

> For anyone interested in the Si570 - a group buy has been organized as
> there's a hefty discount on bulk orders. So you can grab one for $14 vs.
> $25. Ends in a week.
>
I got one a couple weeks back from K5BCQ for 17 bucks delivered as a replacement for one I had lost from one of his kits. I believe that is the same price KM5H sells them for as well, but not sure. AFAIK, that's their regular price...not as good as 14 bucks, but better than 25!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10722. Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 16:39:12 UTC
From: jgaffke
Topic: 10631 Message: 10722

Earle,

LT Spice is free to use, and a truly great tool
for simulating analog circuits, and graphing the results.

Download LT Spice from www.linear.com/ltspice
Then suck in KE7ER/keyclick01.png from the files section
and play with it. And maybe go through the ltspice
tutorial if you have the time. There are help forums
for LT Spice if you have questions about it.
You can see exactly how the keying circuit works.

If you dare, take a look at the long thread summarized here:
http://groups.yahoo.com/group/AT_Sprint/message/1120
In it we bullied Steve into moving from a standard RC style
shaping circuit to something with a bit of capacitive
feedback around that PFET to give a nice trapezoidal shape.
As in keyclick01. Without adding just too many parts.
Mostly because it looked so pretty.

Jerry, KE7ER

> 1. Steve, in response to the information about the Etherkit CC1, you mentioned the transmitter circuit that you invented 10 years ago that provides the shaping of the output signal. Just curious what components on the schematic of this latest MTR comprise this circuit? And how does it work?

10723. Re: [AT_Sprint] Re: What Key Will You Use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 16:42:22 UTC
From: jaevans@...
Topic: 10631 Message: 10723

Could we change the subject line to reflect what is actually being discussed?
I think this topic thread has been hijacked for a while.

72 - john - n0hj

This message was sent using Endymion MailMan.
http://www.endymion.com/products/mailman/

10724. Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 18:28:57 UTC
From: bill_w4zv
Topic: 10665 Message: 10724

How about a 33' radiator for both 20 and 40? On 20 use the EFHW matchbox...on 40 remove it and add a single 33' radial fed directly as a 1/4 wave vertical. See "Using an EF-20 matchbox on 40M ☐ Another Solution" at the very bottom of this page:

http://www.lnrprecision.com/tech-notes/

73, Bill

--- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@...> wrote:
>
> I've only activated a few times on 30M, but one reason I'm leaning toward
> 30M is that QRM, whether unintentional or intentional, seems far too
> prevalent on 40M cw. Also, 30M means a smaller wire antenna or better
> AlexLoop (my snow antenna) efficiency.
>
> Barry N1EU
>
> On Wed, Mar 27, 2013 at 2:08 PM, Lee Hiers <lee.hiers@...> wrote:
>
> > **
> >
> >
> > On Wed, Mar 27, 2013 at 9:44 AM, cloud runner <just.one.hill@...>wrote:
> >
> > Yes, i would choose 30M. Most SOTA activations take place in summer and
> >> mid-day since one has to drive, hike, and set up. 40M mid-day in
> >> summer presents high absorption making 40M very difficult. Out here in the
> >> Rockies, there may be no one, zero contacts, on 40M under such
> >> circumstances.
> >>
> >
> > I'm still not convinced, although that is the way I was leaning. It could
> > be a difference between the Southeast and the Rockies though.
> >
> > I had a number of failed SOTA activation attempts last summer due to
> > lightning. In our corner of the country, thunderstorms are an almost daily
> > occurrence during the summer...they often start as early as 11 am (or even
> > earlier). I don't want to be on a mountain when a T-storm comes through,
> > and was not able to reliably plan an activation around the WX until fall.
> > By then, 40m worked fine here during the day with many "local" contacts.
> > I also wonder if it could just be regional - with the greater population
> > density in the East, 40m may just be more viable year 'round for us.
> >
> > And I'm concerned that 30m isn't "local enough".
> >
> > I suppose I could try one or the other and then change my band selection

> > if it just didn't work out like I'd like. I haven't looked at the manual,
> > but there should only be a few caps and a couple of toroids to change,
> > along with the band-change resistor, correct?
> >
> > 73 de Lee
> > --
> > Lee Hiers, AA4GA
> > www.aa4ga.com
> >
> > Submit your totals to the unofficial QRP DXCC standings - go to *
> > http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
> >
> >
> >
> >
>

10725. Re: [AT_Sprint] Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 18:41:05 UTC
From: TJ Campie
Topic: 10665 Message: 10725

Duh some people really think outside the box don't they... Great idea. I carry enough wire to do this but never thought about it. I am not always that sharp!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Mar 27, 2013 at 1:28 PM, bill_w4zv <btippett@...> wrote:

> **
>
>
> How about a 33' radiator for both 20 and 40? On 20 use the EFHW
> matchbox...on 40 remove it and add a single 33' radial fed directly as a
> 1/4 wave vertical. See "Using an EF-20 matchbox on 40M – Another Solution"
> at the very bottom of this page:
>
> http://www.lnrprecision.com/tech-notes/
>
> 73, Bill
>
>
> --- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@...> wrote:
> >
> > I've only activated a few times on 30M, but one reason I'm leaning toward
> > 30M is that QRM, whether unintentional or intentional, seems far too
> > prevalent on 40M cw. Also, 30M means a smaller wire antenna or better
> > AlexLoop (my snow antenna) efficiency.
> >
> > Barry N1EU
> >
> > On Wed, Mar 27, 2013 at 2:08 PM, Lee Hiers <lee.hiers@...> wrote:
> >
> > > **
> > >
> > >
> > > On Wed, Mar 27, 2013 at 9:44 AM, cloud runner <just.one.hill@
> ...>wrote:
>
> > >
> > > Yes, i would choose 30M. Most SOTA activations take place in summer and

> > >> mid-day since one has to drive, hike, and set up. 40M mid-day in
> > >> summer presents high absorption making 40M very difficult. Out here
> in the
> > >> Rockies, there may be no one, zero contacts, on 40M under such
> > >> circumstances.
> > >>
> > >
> > > I'm still not convinced, although that is the way I was leaning. It
> could
> > > be a difference between the Southeast and the Rockies though.
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> > > I had a number of failed SOTA activation attempts last summer due to
> > > lightning. In our corner of the country, thunderstorms are an almost
> daily
> > > occurrence during the summer...they often start as early as 11 am (or
> even
> > > earlier). I don't want to be on a mountain when a T-storm comes
> through,
> > > and was not able to reliably plan an activation around the WX until
> fall.
> > > By then, 40m worked fine here during the day with many "local"
> contacts.
> > > I also wonder if it could just be regional - with the greater
> population
> > > density in the East, 40m may just be more viable year 'round for us.
> > >
> > > And I'm concerned that 30m isn't "local enough".
> > >
> > > I suppose I could try one or the other and then change my band
> selection
> > > if it just didn't work out like I'd like. I haven't looked at the
> manual,
> > > but there should only be a few caps and a couple of toroids to change,
> > > along with the band-change resistor, correct?
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> > > 73 de Lee
> > > --
> > > Lee Hiers, AA4GA
> > > www.aa4ga.com
> > >
> > > Submit your totals to the unofficial QRP DXCC standings - go to *
> > > http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
> > >
> > >
> > >
> > >
> >
>
>
>

10726. My 1st "mountain topping" with my ATS-3b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 18:42:14 UTC
From: dk7fh
Topic: 10726 Message: 10726

Spending this years easter holidays in a hotel, which is located down in a valley, I had the idea this morning to improve my qso chances. I climbed up the next hill to do some "mountain topping" with my just finished ATS-3b. I reached the top heavyly breething and as I unpacked my rig, I realized that I forgot important devices in the hotel, such as my z-match and the swr meter and connecting coax cabel and adapters. Still I had several pieces of wire and a 8 meters long fishing rod. So I connected the wires to reach a length of about 2x10 meters, stuck one piece in the center of the antenna bnc jack and twirled the end of the other wire around the bnc-shield, one leg fixed at the end of the fishing pole, the other lying flat on the earth. And, oh wonder, the high swr protection didn't switch off the tx. This way I tried the first qso on 40 and reached Mike, M6MPC in Manchester (about 700 km), who was also running qrp, with the first call! Later 2 qso's with German op's followed, one of them also in qrp. What a fun, believe me, although the temperature was just a bit above the freezing point.

So my rig was only the ATS-3b with 9V block battery, phones, a microswitch as key (see fotos)and some kind of direct fed upper and outer antenna. Now, it seems, I am infected by the virus of performing ham operation by using minimalized equipment outside in nature.

Frank, dk7fh

10727. Button problem ATS3 new member

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 18:57:25 UTC
From: Will n Pat
Topic: 10727 Message: 10727

Hi all I am a very long time QRPer who just loves his ATS3. However, I seem to have a problem and need some advice. After years of use my memory button started functioning intermittently then finally went out all together. It is probably just worn out and needs replacement. My question is how to get another button. Any help out there?
de WA6YPE (Bill)

10728. Re: [AT_Sprint] Button problem ATS3 new member

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 19:09:12 UTC
From: Johnny Matlock
Topic: 10727 Message: 10728

He Bill
If it were me I would email Steve and or Dale Putnam WC7S.
They both are a gold mine for parts!
Gl
72
Johnny AC 0BQ

On Wednesday, March 27, 2013, Will n Pat wrote:

> **
>
>
> Hi all I am a very long time QRPer who just loves his ATS3. However, I
> seem to have a problem and need some advice. After years of use my memory
> button started functioning intermittently then finally went out all
> together. It is probably just worn out and needs replacement. My question
> is how to get another button. Any help out there?
> de WA6YPE (Bill)
>
>
>

10729. MTR kit arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 19:12:17 UTC
From: Joseph Trombino, Jr
Topic: 10729 Message: 10729

MTR kit order number 12 arrived in North Carolina this afternoon....time to melt some solder.

73, Joe W2KJ
I QRP, therefore I am

10730. Re: [AT_Sprint] MTR kit arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 19:23:03 UTC
From: FS
Topic: 10729 Message: 10730

#60 arrived in central NJ today too.
Thanks Steve.

Fred w2nnn

Frm my --.- .-. .--. .--. .... --- -. .

On Mar 27, 2013, at 15:12, "Joseph Trombino, Jr" <jotrom@...> wrote:

> MTR kit order number 12 arrived in North Carolina this afternoon....time to melt some solder.
>
> 73, Joe W2KJ
> I QRP, therefore I am
>
>

10731. Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 19:36:30 UTC
From: Etienne Scott
Topic: 10665 Message: 10731

OR, one more solution is to use an adjustable EF tuner (Hendricks SOTA Tuner is one) and use the same 66' foot wire as a halfwave on 40m and a fullwave for 20m. That's what I've been using almost exclusively for a year now. It works well.

It's also one reason why I am going to configure my MTR to 20/40 - the same antenna used for both bands with just slight turn of the polyvaricon...

Etienne-K7ATN

--- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@...> wrote:
>
> How about a 33' radiator for both 20 and 40? On 20 use the EFHW matchbox...on 40 remove it and add a single 33' radial fed directly as a 1/4 wave vertical. See "Using an EF-20 matchbox on 40M ☐ Another Solution" at the very bottom of this page:
>
> http://www.lnrprecision.com/tech-notes/
>
> 73, Bill
>

10732. MTR Arrival

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 19:46:57 UTC
From: Steven Bornstein
Topic: 10732 Message: 10732

No 98 arrived today. Steve's case design and Ten Tec's production is outstanding.
73, Steve K8IDN

10733. Re: [AT_Sprint] Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 19:46:59 UTC
From: Barry N1EU
Topic: 10665 Message: 10733

Just a reminder, as mentioned numerous times recently on varous forums: a full wave end-fed wire is a poor vertical radiator (high rad angle) and has a multi-lobed non-broadside pattern as a horizontal radiator. I think a trap would be a better solution than running it full wave.

Barry N1EU

On Wed, Mar 27, 2013 at 7:36 PM, Etienne Scott <climb2ski97215@...>wrote:

> **
>
>
> OR, one more solution is to use an adjustable EF tuner (Hendricks SOTA
> Tuner is one) and use the same 66' foot wire as a halfwave on 40m and a
> fullwave for 20m. That's what I've been using almost exclusively for a year
> now. It works well.
>
> It's also one reason why I am going to configure my MTR to 20/40 - the
> same antenna used for both bands with just slight turn of the polyvaricon...
>
> Etienne-K7ATN
>
> --- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@...> wrote:
> >
> > How about a 33' radiator for both 20 and 40? On 20 use the EFHW
> matchbox...on 40 remove it and add a single 33' radial fed directly as a
> 1/4 wave vertical. See "Using an EF-20 matchbox on 40M – Another Solution"
> at the very bottom of this page:
> >
> > http://www.lnrprecision.com/tech-notes/
> >
> > 73, Bill
> >
>
>
>

10734. Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 20:13:26 UTC
From: Etienne Scott
Topic: 10665 Message: 10734

Good points, Barry, Thanks.

However, in my activations and with some informal testing, the 20m full wave (set up as an inverted vee) has played just as well as an elevated vertical or as an EFHW. But you have encouraged me to try some more testing - perhaps this weekend you'll have a chance to give a listen and let me know what you hear.

Regards,
Etienne-K7ATN

--- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@...> wrote:
>
> Just a reminder, as mentioned numerous times recently on varous forums: a
> full wave end-fed wire is a poor vertical radiator (high rad angle) and has
> a multi-lobed non-broadside pattern as a horizontal radiator. I think a
> trap would be a better solution than running it full wave.
>
> Barry N1EU
>
> On Wed, Mar 27, 2013 at 7:36 PM, Etienne Scott <climb2ski97215@...>wrote:
>
> > **
> >
> >
> > OR, one more solution is to use an adjustable EF tuner (Hendricks SOTA
> > Tuner is one) and use the same 66' foot wire as a halfwave on 40m and a
> > fullwave for 20m. That's what I've been using almost exclusively for a year
> > now. It works well.
> >
> > It's also one reason why I am going to configure my MTR to 20/40 - the
> > same antenna used for both bands with just slight turn of the polyvaricon...
> >
> > Etienne-K7ATN
> >
> > --- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@> wrote:
> > >
> > > How about a 33' radiator for both 20 and 40? On 20 use the EFHW
> > matchbox...on 40 remove it and add a single 33' radial fed directly as a
> > 1/4 wave vertical. See "Using an EF-20 matchbox on 40M ☐ Another Solution"
> > at the very bottom of this page:
> > >
> > > http://www.lnrprecision.com/tech-notes/
> > >
> > > 73, Bill
> > >

> >
> >
> >
>

10735. Re: [AT_Sprint] Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 20:13:34 UTC
From: Lee Hiers
Topic: 10665 Message: 10735

On Wed, Mar 27, 2013 at 3:46 PM, Barry N1EU <n1eu.barry@...> wrote:

> Just a reminder, as mentioned numerous times recently on varous forums: a
> full wave end-fed wire is a poor vertical radiator (high rad angle) and has
> a multi-lobed non-broadside pattern as a horizontal radiator. I think a
> trap would be a better solution than running it full wave.
>

I agree with that - plus the trap will shorten the antenna slightly, and the loss shouldn't be objectionable. I've experimented with traps with my Par 10/20/40 matchbox and it seems to do OK, so I will probably build a dedicated trapped two-band EFHW for my MTR.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10736. Re: [AT_Sprint] MTR kit arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 20:15:50 UTC
From: Lee Hiers
Topic: 10729 Message: 10736

This is starting to look good - I've got Friday off work! ;-)

Off to the office supply store to get some color laser prints made....

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *
http://www.aa4ga.com/p/qrp-dxcc.html* for more info!

10737. Re: [AT_Sprint] Antenna to use with the MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 20:27:39 UTC
From: Hank Greeb
Topic: 10665 Message: 10737

I can vouch for the following:

The "very very very best" portable antenna I've used has been a 130' dipole, fed in the center with 400 ohm (nominal) window line, and supported by two 70' tall "naturally occurring antenna supports" which were conveniently located about 150 feet apart.

I realize this kind of antenna is a bit difficult to get to the top of a mountain, so I have another quite useful choice

I have a 31' jackite pole, a bit heavy for mountain topping, but a much lighter carbon fiber 31' pole has been mentioned as an alternative. I support a 33' wire with it, and put the rig a convenient distance from the pole so that it is supported. I also have a 33' counterpoise. It works fine with my automatic Z-100 ATU (which may be a bit heavy for mountain topping, but most any ATU capable of wide range matching would work). I find it actually works on 40 without the ATU, with SWR between 2/1 and 3/1. Yes, I suppose I could tweak the length to get a better SWR, but at 9 volts my rig puts out 3 watts. On 20 meters an ATU is needed. And, the purist would say I should shorten the counterpoise to 16 feet or so, but I find that it works FB.

But, if you have a convenient "naturally occurring antenna support of 20' or higher, just throw the wire over a branch and it will usually work fine on 20/30/40 meters. (whichever is your choice.)

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/27/2013 4:13 PM, Lee Hiers wrote:
>
>
> On Wed, Mar 27, 2013 at 3:46 PM, Barry N1EU <n1eu.barry@...
> <mailto:n1eu.barry@...>> wrote:
>
> Just a reminder, as mentioned numerous times recently on varous
> forums: a full wave end-fed wire is a poor vertical radiator (high
> rad angle) and has a multi-lobed non-broadside pattern as a
> horizontal radiator. I think a trap would be a better solution
> than running it full wave.
>
> I agree with that - plus the trap will shorten the antenna slightly,
> and the loss shouldn't be objectionable. I've experimented with traps
> with my Par 10/20/40 matchbox and it seems to do OK, so I will
> probably build a dedicated trapped two-band EFHW for my MTR.
>

> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com <http://www.aa4ga.com>
>
> Submit your totals to the unofficial QRP DXCC standings - go to
> _http://www.aa4ga.com/p/qrp-dxcc.html_ for more info!
>
>
>
>
>

10738. Re: [AT_Sprint] MTR kit arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 21:02:03 UTC
From: Steven Weber
Topic: 10729 Message: 10738

> MTR kit order number 12 arrived in North Carolina this afternoon....time
> to melt some solder.
>

As of today, there are 97 in the mail. They are being sent out in batches, more or less in the order checks were received. I've been doing "click n ship", which turned out to be some what time consuming. It might have been quicker to have the PO do it, but then I get lines behind me which streach out the door and then I get a lot of dirty looks, hi.

The last 50 are in limbo at the moment (mostly DX orders as they take the longest to process) as I ran out of boxes and the ones I ordered haven't arrived yet. I cleaned out all of the boxes from two post offices and they are waiting for mine to show up so I can restock them :) Hopefully they will show up tomorrow so I can finish this job up!

72, Steve KD1JV

10739. Re: [AT_Sprint] MTR kit arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 21:03:51 UTC
From: TJ Campie
Topic: 10729 Message: 10739

Just to refresh my memory - we're looking at May sometime for the
availability of the custom cases for first-run MTRs?

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Mar 27, 2013 at 4:02 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
>
>
> > MTR kit order number 12 arrived in North Carolina this afternoon....time
> > to melt some solder.
> >
>
> As of today, there are 97 in the mail. They are being sent out in batches,
> more or less in the order checks were received. I've been doing "click n
> ship", which turned out to be some what time consuming. It might have been
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>
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> longest to process) as I ran out of boxes and the ones I ordered haven't
> arrived yet. I cleaned out all of the boxes from two post offices and they
> are waiting for mine to show up so I can restock them :) Hopefully they
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> show up tomorrow so I can finish this job up!
>
> 72, Steve KD1JV
>
>
>

10740. Re: [AT_Sprint] My 1st "mountain topping" with my ATS-3b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 21:15:21 UTC
From: Gil G.
Topic: 10726 Message: 10740

Hello Frank,

You do that a few times and you won't be huffing and puffing anymore.. It's unbelievable how fast the body adapts to new requirements..

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 27, 2013, at 2:42 PM, dk7fh wrote:

> So my rig was only the ATS-3b with 9V block battery, phones, a microswitch as key (see fotos)and some kind of direct fed upper and outer antenna. Now, it seems, I am infected by the virus of performing ham operation by using minimalized equipment outside in nature.

10741. Re: [AT_Sprint] MTR kit arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 21:17:12 UTC
From: James Fehling
Topic: 10729 Message: 10741

#149 arrived in long island new York today
On Mar 27, 2013 5:04 PM, "TJ Campie" <tom.campie@...> wrote:

> **
>
>
> Just to refresh my memory - we're looking at May sometime for the
> availability of the custom cases for first-run MTRs?
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Wed, Mar 27, 2013 at 4:02 PM, Steven Weber <steve.kd1jv@...>wrote:
>
>> **
>>
>>
>>
>>
>> > MTR kit order number 12 arrived in North Carolina this
>> afternoon....time
>> > to melt some solder.
>> >
>>
>> As of today, there are 97 in the mail. They are being sent out in
>> batches,
>> more or less in the order checks were received. I've been doing "click n
>> ship", which turned out to be some what time consuming. It might have
>> been
>> quicker to have the PO do it, but then I get lines behind me which
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>> out the door and then I get a lot of dirty looks, hi.
>>
>> The last 50 are in limbo at the moment (mostly DX orders as they take the
>> longest to process) as I ran out of boxes and the ones I ordered haven't
>> arrived yet. I cleaned out all of the boxes from two post offices and
>> they
>> are waiting for mine to show up so I can restock them :) Hopefully they
>> will

>> show up tomorrow so I can finish this job up!
>>
>> 72, Steve KD1JV
>>
>>
>
>

10742. Re: [AT_Sprint] My 1st "mountain topping" with my ATS-3b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 21:37:51 UTC
From: Hank Greeb
Topic: 10726 Message: 10742

Don't worry, the virus with which you've been infected is one of the several beneficial retroviruses which ward off or cure diseases. :)

p.s. Nice Writeup! Good DX, OM! When will you climbthe Matterhorn? Please let us know, and we'll all be looking for you on 20, 17, or 15 meters!

p.p.s. Make a list of "everything" needed for an outing. That's the only way I've found to minimize (but not eliminate) the "%$#^& why did I forget that" moment on an outdoor operation.

On 3/27/2013 2:42 PM, dk7fh wrote:
> Now, it seems, I am infected by the virus of performing ham operation by using minimalized equipment outside in nature.

10743. Re: MTR kit arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 21:44:37 UTC
From: zigmundrat
Topic: 10729 Message: 10743

Hrm... I thought *I* had #149...

--- In AT_Sprint@yahoogroups.com, James Fehling <n2jfdny@...> wrote:
>
> #149 arrived in long island new York today
> On Mar 27, 2013 5:04 PM, "TJ Campie" <tom.campie@...> wrote:
>

10744. MTR #175 and more photos of the new enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 21:38:28 UTC
From: mdweezer
Topic: 10744 Message: 10744

MTR #175 arrived today - snapped some more shots of the enclosure for those who are interested. It's tremendously solid! Enjoy.

http://w2mdw.blogspot.com/2013/03/steve-webers-mountain-toper-radio-mtr.html

-Matt, W2MDW

10745. Re: [AT_Sprint] Button problem ATS3 new member

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-27 22:22:27 UTC
From: Bill Smith
Topic: 10727 Message: 10745

thanks Johnny I just had no idea where to start with no part numbers or real identification of the parts.

From: Johnny Matlock <jomatlock@...>
To: "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
Sent: Wednesday, March 27, 2013 12:09 PM
Subject: Re: [AT_Sprint] Button problem ATS3 new member

He Bill
If it were me I would email Steve and or Dale Putnam WC7S.
They both are a gold mine for parts!
Gl
72
Johnny AC 0BQ

On Wednesday, March 27, 2013, Will n Pat wrote:

>
>Hi all I am a very long time QRPer who just loves his ATS3. However, I seem to have a problem and need some advice. After years of use my memory button started functioning intermittently then finally went out all together. It is probably just worn out and needs replacement. My question is how to get another button. Any help out there?
>de WA6YPE (Bill)
>
>

10746. Re: [AT_Sprint] Button problem ATS3 new member

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 00:32:04 UTC
From: Johnny Matlock
Topic: 10727 Message: 10746

Your welcome Bill.
You could get a number if your lucky, but then the order at mouser is so
small, it's just a pain!
I am bettin on the fact that one of them has a switch!
good luck
72
Johnny

On Wed, Mar 27, 2013 at 5:22 PM, Bill Smith <wa6ype@...> wrote:

> **
>
>
> thanks Johnny I just had no idea where to start with no part numbers or
> real identification of the parts.
>
> ---
> *From:* Johnny Matlock <jomatlock@...>
> *To:* "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
> *Sent:* Wednesday, March 27, 2013 12:09 PM
> *Subject:* Re: [AT_Sprint] Button problem ATS3 new member
>
>
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> If it were me I would email Steve and or Dale Putnam WC7S.
> They both are a gold mine for parts!
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> Johnny AC 0BQ
>
> On Wednesday, March 27, 2013, Will n Pat wrote:
>
> **
>
> Hi all I am a very long time QRPer who just loves his ATS3. However, I
> seem to have a problem and need some advice. After years of use my memory
> button started functioning intermittently then finally went out all
> together. It is probably just worn out and needs replacement. My question
> is how to get another button. Any help out there?
> de WA6YPE (Bill)
>
>
>
>
>

10747. MTR #133

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 00:12:31 UTC
From: bf bahler
Topic: 10747 Message: 10747

Thank you Steve.
MTR #133 arrived safely in Nothern NJ this PM.
Packaging and Kit was just great, very professional!
Alan, W2JHX

10748. Re: [AT_Sprint] Re: MTR kit arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 00:57:13 UTC
From: James Fehling
Topic: 10729 Message: 10748

Could be #148
On Mar 27, 2013 5:44 PM, "zigmundrat" <yahoogroups13@pumpkinbrook.com>
wrote:

> **
>
>
> Hrm... I thought *I* had #149...
>
> --- In AT_Sprint@yahoogroups.com, James Fehling <n2jfdny@...> wrote:
> >
> > #149 arrived in long island new York today
> > On Mar 27, 2013 5:04 PM, "TJ Campie" <tom.campie@...> wrote:
> >
>
>
>

10749. RE: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 01:33:39 UTC
From: Mike Olbrisch
Topic: 10673 Message: 10749

I wish they made something that could cover 15m and 30m too. OR - like the 10-20-40 relationship, 15-30-60m. 15m and 30m are pretty good bands for me here out west. I do not think I have ever worked any Euro-DX from a summit on 20m, but I sure have on 15m.

So I am working on building my own..... for 15m-17m-20m-30m... and maybe 40m.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of bill_w4zv
Sent: Wednesday, March 27, 2013 05:41
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: EFHW tuner

The Par/LNR "Multiband QRP" matchbox covers 10m also. It resonates the supplied 20m element as a full wave on 10m since the full wave impedance is similar to half wave impedance, although this results in a higher takeoff angle when mounted vertically and multiple azimuthal lobes when mounted horizontally.

The original EF-20/40 (Par's first broadband unit) was rated at 25 Watts (I've had one since 2004). Their latest "Multiband 100W" EF-20/40 is rated at 100W (NOT the "Multiband QRP" EF-10/20/40MKII which is still rated at 25W). As you said you can use their "Multiband QRP" matchbox for any halfwave from 10-40m but I'm not sure that applies to their current "Multiband 100W" EF-20/40. See the full lineup below which should clear up any confusion:

http://www.lnrprecision.com/endfedz-specs/

Larry AE4LD is the owner of LNR and attended our SOTA Forum at the Charlotte Hamfest a few weeks ago. He has greatly expanded the Par product line since purchasing it over from Dale W4OP a few years ago.

73, Bill W4ZV

--- In AT_Sprint@yahoogroups.com, "cloud runner" <just.one.hill@...> wrote:
>
> Please understand, I am not an engineer, and this is a work in progress. KE5AKL, WG0AT, and I are all playing with one form or another of no tune matching devices for the end-fed wires.
>
> The one I built, a miniature version similar to the 100 watt device once sold by PAR, maybe still, and also sold in QRP version by I think LNR, mine

is what I have on hand so not identical at all, is suppose to work with end-fed halfwaves from 15 through 40 meters. I have only tried mine so far on 20 meters.
>
> No, I have never used any counterpoise with any endfed halfwave. I think that you can get away without them at QRP power levels. Anyway, I have experimented with counter poises of variouslengths, and not was carrying any current.
>
> While I have found it to detune when I change the height of the end of the wire above ground, it usually stays under 1.5:1.
>
> It is said that the varicon tuning capacitor used in some tuners are very inefficient when used in the high impedance end of the transformer.
>
> I use 24 gauge teflon insulated wire.
>
> Today, i activated a SOTA peak with this set up. I ran the MTR at 11 volts which produces 5 watts out for me. The transistors ran cool to the touch, so the matcher must have been doing its job. Signal reports were very good, many S-7 to S-9.
>
>
> Incidentally, the MTR produced 40 QSO's on the SOTA today, for an average of 3.4 mAH per QSO
>
> 73 fred - kt5x (WS0TA)
>
>
>
>
>
> Fred ...
>
> Your matcher sounds like a well thought-out project. I understand from your posts: The core is FT50-43, 3T on the primary, 28T on the secondary, bifilar winding, and a 90pf capacitor across the primary.
>
> If you don't mind fielding further questions, here are a few more:
>
> (1) Is it for 20M?
> (2) When you got done pruning the wire, how much longer (or shorter) was it than the standard length?
> (3) I think you said something about a counterpoise. How long? (0.05 wave-length?)
> (4) Given that it is not the resonant style of matcher, will the circuit work over a wide enough range of conditions, such that a person could tune it at home and then use it on the trail without a SWR indicator with the MTR?
> (5) Assuming a tuned half-wave wire, will it work on 30M and 40M with

respectable SWR?
> (6) What gauge wire did you use on the primary and secondary?
> (7) Any thoughts or measurements regarding efficiency?
>
> The above info will be very useful, as I am leaning toward giving it a try.
>
> Thanks ... Reed K7FLY
>

Yahoo! Groups Links

10750. RE: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 01:38:59 UTC
From: James Rodenkirch
Topic: 10673 Message: 10750

Gosh, Stu's EFHW tuner tunes 40 through 15 meters -- how cool is that?!?!?!?!

Go here for the particulars -- www.betterqrp.com

72, Jim R. K9JWV

To: AT_Sprint@yahoogroups.com
From: mike-2007@...
Date: Wed, 27 Mar 2013 19:33:39 -0600
Subject: RE: [AT_Sprint] Re: EFHW tuner

I wish they made something that could cover 15m and 30m too. OR - like the

10-20-40 relationship, 15-30-60m. 15m and 30m are pretty good bands for me

here out west. I do not think I have ever worked any Euro-DX from a summit

on 20m, but I sure have on 15m.

So I am working on building my own..... for 15m-17m-20m-30m... and maybe

40m.

Mike - KD9KC.

-----Original Message-----

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf

Of bill_w4zv

Sent: Wednesday, March 27, 2013 05:41

To: AT_Sprint@yahoogroups.com

Subject: [AT_Sprint] Re: EFHW tuner

The Par/LNR "Multiband QRP" matchbox covers 10m also. It resonates the

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angle when mounted vertically and multiple azimuthal lobes when mounted

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(I've had one since 2004). Their latest "Multiband 100W" EF-20/40 is rated

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73, Bill W4ZV

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>

> The one I built, a miniature version similar to the 100 watt device once sold by PAR, maybe still, and also sold in QRP version by I think LNR, mine is what I have on hand so not identical at all, is suppose to work with end-fed halfwaves from 15 through 40 meters. I have only tried mine so far on 20 meters.

>

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> It is said that the varicon tuning capacitor used in some tuners are very inefficient when used in the high impedance end of the transformer.

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>

>

>

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>

> Thanks ... Reed K7FLY

>

Yahoo! Groups Links

10751. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 01:47:19 UTC
From: Chris Maness
Topic: 10673 Message: 10751

I just built my better QRP tuner earlier this week. It is VERY good -- especially if you understand how they work and how to correctly tune the wire for length first.

Regards,
Chris Maness KQ6UP

On Wed, Mar 27, 2013 at 6:38 PM, James Rodenkirch <rodenkirch_llc@...>wrote:

>
>
> Gosh, Stu's EFHW tuner tunes 40 through 15 meters -- how cool is
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>
> Go here for the particulars -- www.betterqrp.com
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>
>
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> Date: Wed, 27 Mar 2013 19:33:39 -0600
> Subject: RE: [AT_Sprint] Re: EFHW tuner
>
>
>
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>
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> current.
> >
> > While I have found it to detune when I change the height of the end of
> the
> wire above ground, it usually stays under 1.5:1.
> >
> > It is said that the varicon tuning capacitor used in some tuners are very
> inefficient when used in the high impedance end of the transformer.
> >
> > I use 24 gauge teflon insulated wire.

> >
> > Today, i activated a SOTA peak with this set up. I ran the MTR at 11
> volts which produces 5 watts out for me. The transistors ran cool to the
> touch, so the matcher must have been doing its job. Signal reports were
> very good, many S-7 to S-9.
> >
> >
> > Incidentally, the MTR produced 40 QSO's on the SOTA today, for an average
> of 3.4 mAH per QSO
> >
> > 73 fred - kt5x (WS0TA)
> >
> >
> >
> >
> >
> > Fred ...
> >
> > Your matcher sounds like a well thought-out project. I understand from
> your posts: The core is FT50-43, 3T on the primary, 28T on the secondary,
> bifilar winding, and a 90pf capacitor across the primary.
> >
> > If you don't mind fielding further questions, here are a few more:
> >
> > (1) Is it for 20M?
> > (2) When you got done pruning the wire, how much longer (or shorter) was
> it than the standard length?
> > (3) I think you said something about a counterpoise. How long? (0.05
> wave-length?)
> > (4) Given that it is not the resonant style of matcher, will the circuit
> work over a wide enough range of conditions, such that a person could tune
> it at home and then use it on the trail without a SWR indicator with the
> MTR?
> > (5) Assuming a tuned half-wave wire, will it work on 30M and 40M with
> respectable SWR?
> > (6) What gauge wire did you use on the primary and secondary?
> > (7) Any thoughts or measurements regarding efficiency?
> >
> > The above info will be very useful, as I am leaning toward giving it a
> try.
> >
> > Thanks ... Reed K7FLY
> >
>
> ---
>
> Yahoo! Groups Links
>
>
>

>
>
>

10752. Re: [AT_Sprint] Button problem ATS3 new member

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 01:54:38 UTC
From: Steven Weber
Topic: 10727 Message: 10752

Yes, I have spare switches. I'll look up your address and send a couple off to you.
Steve KD1JV

> Hi all I am a very long time QRPer who just loves his ATS3. However, I
> seem to have a problem and need some advice. After years of use my memory
> button started functioning intermittently then finally went out all
> together. It is probably just worn out and needs replacement. My question
> is how to get another button. Any help out there?
> de WA6YPE (Bill)
>

10753. Re: [AT_Sprint] MTR kit arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 01:55:24 UTC
From: Steven Weber
Topic: 10729 Message: 10753

Probably more like June. KD1JV

Just to refresh my memory - we're looking at May sometime for the availability of the custom cases for first-run MTRs?

10754. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 01:55:36 UTC
From: Hank Greeb
Topic: 10673 Message: 10754

"They" is Steve Weber, KD1JV, and he has an excellent, just slightly heavier, rig called the AT-Sprint version 3b. It covers all the bands from 80 through 15 meters, 3 watts @ 9 VDC, 5 watts @ 12 VDC.

The Mountain Topper has a lower frequency DDS, so it can't cover 15 meters - but the power consumptionis considerably less on receive. Less power consumption means that the weight of the battery can be less for equal batterycharge life. Many mountain climbers value weight more highly than band versatility.

Another "advantage" ofMTR is that the two bands are switch selectable, so it is very easy to change bands, and no possibility of losing a band module over a cliff when trying to change a band in a high wind condition at the top of a mountain.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/27/2013 9:33 PM, Mike Olbrisch wrote:
> I wish they made something that could cover 15m and 30m too. OR - like the 10-20-40 relationship, 15-30-60m. 15m and 30m are pretty good bands for me here out west. I do not think I have ever worked any Euro-DX from a summit on 20m, but I sure have on 15m.
>
> So I am working on building my own..... for 15m-17m-20m-30m... and maybe 40m.
>
> Mike - KD9KC.
>
> -----Original Message-----
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of bill_w4zv
> Sent: Wednesday, March 27, 2013 05:41
> To: AT_Sprint@yahoogroups.com
> Subject: [AT_Sprint] Re: EFHW tuner
>
> The Par/LNR "Multiband QRP" matchbox covers 10m also. It resonates the supplied 20m element as a full wave on 10m since the full wave impedance is similar to half wave impedance, although this results in a higher takeoff angle when mounted vertically and multiple azimuthal lobes when mounted horizontally.
>
> The original EF-20/40 (Par's first broadband unit) was rated at 25 Watts (I've had one since 2004). Their latest "Multiband 100W" EF-20/40 is rated at 100W (NOT the "Multiband QRP" EF-10/20/40MKII which is still rated at 25W). As you said you can use their "Multiband QRP" matchbox for any halfwave from 10-40m but I'm not sure that applies to their current "Multiband 100W" EF-20/40. See the full lineup below which should clear up any confusion:
>
> http://www.lnrprecision.com/endfedz-specs/

>
> Larry AE4LD is the owner of LNR and attended our SOTA Forum at the Charlotte Hamfest a few weeks ago. He has greatly expanded the Par product line since purchasing it over from Dale W4OP a few years ago.
>
> 73, Bill W4ZV

10755. RE: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 02:10:00 UTC
From: Mike Olbrisch
Topic: 10673 Message: 10755

Sorry Hank - the original thread was about ANTENNAS..... not radios.

Read all the way to the bottom.

Mike - Kd9Kc.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Hank Greeb
Sent: Wednesday, March 27, 2013 19:56
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: EFHW tuner

"They" is Steve Weber, KD1JV, and he has an excellent, just slightly heavier, rig called the AT-Sprint version 3b. It covers all the bands from 80 through 15 meters, 3 watts @ 9 VDC, 5 watts @ 12 VDC.

The Mountain Topper has a lower frequency DDS, so it can't cover 15 meters - but the power consumption is considerably less on receive. Less power consumption means that the weight of the battery can be less for equal battery charge life. Many mountain climbers value weight more highly than band versatility.

Another "advantage" of MTR is that the two bands are switch selectable, so it is very easy to change bands, and no possibility of losing a band module over a cliff when trying to change a band in a high wind condition at the top of a mountain.

72/73 de n8xx Hg
QRP >99.44% of the time
On 3/27/2013 9:33 PM, Mike Olbrisch wrote:
I wish they made something that could cover 15m and 30m too. OR - like the 10-20-40 relationship, 15-30-60m. 15m and 30m are pretty good bands for me here out west. I do not think I have ever worked any Euro-DX from a summit on 20m, but I sure have on 15m.

So I am working on building my own..... for 15m-17m-20m-30m... and maybe 40m.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of bill_w4zv
Sent: Wednesday, March 27, 2013 05:41
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: EFHW tuner

The Par/LNR "Multiband QRP" matchbox covers 10m also. It resonates the supplied 20m element as a full wave on 10m since the full wave impedance is similar to half wave impedance, although this results in a higher takeoff angle when mounted vertically and multiple azimuthal lobes when mounted horizontally.

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73, Bill W4ZV

10756. Re: [AT_Sprint] MTR #175 and more photos of the new enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 02:52:17 UTC
From: Gil G.
Topic: 10744 Message: 10756

Would maybe a bunch of AAA cells fit in there?

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 27, 2013, at 5:38 PM, mdweezer wrote:

> MTR #175 arrived today - snapped some more shots of the enclosure for those who are interested. It's tremendously solid! Enjoy.
>
> http://w2mdw.blogspot.com/2013/03/steve-webers-mountain-toper-radio-mtr.html
>
> -Matt, W2MDW

10757. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 02:51:02 UTC
From: Hank Greeb
Topic: 10673 Message: 10757

Yeah, I read "tuner" but figured that a tuner is such a simplething that having to "design" something which covers such a wide frequency range would be reinventing the wheel. For example, Steven Weberdesigned such a tuner years ago, and it is now being sold in a slightly modified form by Dough Hendricks. Info is at
http://www.qrpkits.com/sltplus.html
Again, if you want a smaller, lighter implementation of such a design, there may be tradeoffs.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/27/2013 10:10 PM, Mike Olbrisch wrote:
>
> Sorry Hank - the original thread was about ANTENNAS.....not radios.
>
> Read all the way to the bottom.
>
> Mike - Kd9Kc.
>
> *From:*AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com]
> *On Behalf Of *Hank Greeb
> *Sent:* Wednesday, March 27, 2013 19:56
> *To:* AT_Sprint@yahoogroups.com
> *Subject:* Re: [AT_Sprint] Re: EFHW tuner
>
>
>
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>
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>
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> selectable, so it is very easy to change bands, and no possibility of
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> high wind condition at the top of a mountain.
>
> 72/73 de n8xx Hg
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>
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>
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>
>
>
> So I am working on building my own..... for 15m-17m-20m-30m... and maybe 40m.
>
>
>
> Mike - KD9KC.
>
>
>
> -----Original Message-----
>
> From:AT_Sprint@yahoogroups.com <mailto:AT_Sprint@yahoogroups.com> [mailto:AT_Sprint@ya!
> hoogroup
> s.com <mailto:AT_Sprint@yahoogroups.com>] On Behalf
>
> Of bill_w4zv
>
> Sent: Wednesday, March 27, 2013 05:41
>
> To:AT_Sprint@yahoogroups.com <mailto:AT_Sprint@yahoogroups.com>
>
> Subject: [AT_Sprint] Re: EFHW tuner
>
>
>
> The Par/LNR "Multiband QRP" matchbox covers 10m also. It resonates the supplied 20m element as a full wave on 10m since the full wave impedance is similar to half wave impedance, although this results in a higher takeoff angle when mounted vertically and multiple azimuthal lobes when mounted horizontally.
>
>
>
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>
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>
>
> Larry AE4LD is the owner of LNR and attended our SOTA Forum at the Charlotte Hamfest a few weeks ago. He has greatly expanded the Par product line since purchasing it over from Dale W4OP a few years ago.
>
>
>
> 73, Bill W4ZV!
>
>
>
>
>
>
>
>

10758. RE: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 03:25:22 UTC
From: Mike Olbrisch
Topic: 10673 Message: 10758

Ummmmm..... I didn't write anything about TUNER. It was ALL ANTENNA. Sorry - it is what it is.....

I was saying it would be nice if THEY made an antenna for 15-30-60m like THEY make an antenna for 10-20-40m. THEY is certainly not KD1JV, who makes great radios but not EFHWAs - AFAIK.

Sorry you mis-understood.

Mike - KD9KC.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Hank Greeb
Sent: Wednesday, March 27, 2013 20:51
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: EFHW tuner

Yeah, I read "tuner" but figured that a tuner is such a simple thing that having to "design" something which covers such a wide frequency range would be reinventing the wheel. For example, Steven Weber designed such a tuner years ago, and it is now being sold in a slightly modified form by Dough Hendricks. Info is at
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Again, if you want a smaller, lighter implementation of such a design, there may be tradeoffs.

72/73 de n8xx Hg
QRP >99.44% of the time
On 3/27/2013 10:10 PM, Mike Olbrisch wrote:
Sorry Hank - the original thread was about ANTENNAS..... not radios.

Read all the way to the bottom.

Mike - Kd9Kc.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Hank Greeb
Sent: Wednesday, March 27, 2013 19:56
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: EFHW tuner

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So I am working on building my own..... for 15m-17m-20m-30m... and maybe 40m.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@ya!
<mailto:AT_Sprint@yahoogroups.com>
hoogroup <mailto:AT_Sprint@yahoogroups.com>
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Of bill_w4zv
Sent: Wednesday, March 27, 2013 05:41
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: EFHW tuner

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73, Bill W4ZV!

10759. MTR #191 arrives in California

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 04:24:19 UTC
From: wheeler2roh
Topic: 10759 Message: 10759

Today I received a micro wonder! The case is amazing! Yahoo pics did not do it justice. Only slightly taller than an Altoids case and bullet proof solid.

How Steve get's the energy to design, part, bag, and ship small quantities for us with such professional and technical quality I'm not sure, but thank you!

I assume the serial numbers are sequential from the first run, and not starting with this year's run, but not sure.

Wayne
W6AHH

10760. Re: [AT_Sprint] MTR #175 and more photos of the new enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 07:23:42 UTC
From: F5mpw
Topic: 10744 Message: 10760

Thank you very much Matt for photos... it a very nice small TX!
Thank you Steve. We are waiting no problem ;-)
72 Philippe F5MPW

----- Original Message -----
From: mdweezer
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, March 27, 2013 10:38 PM
Subject: [AT_Sprint] MTR #175 and more photos of the new enclosure

MTR #175 arrived today - snapped some more shots of the enclosure for those who are interested. It's tremendously solid! Enjoy.

http://w2mdw.blogspot.com/2013/03/steve-webers-mountain-toper-radio-mtr.html

-Matt, W2MDW

10761. Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 10:27:38 UTC
From: bill_w4zv
Topic: 10673 Message: 10761

--- In AT_Sprint@yahoogroups.com, James Rodenkirch <rodenkirch_llc@...> wrote:
>
> Gosh, Stu's EFHW tuner tunes 40 through 15 meters

So does the LNR EF-10/40MKII (and even 10m)...with NO TUNING required once the wire is pruned. However both units need a separate 1/2 wl wire for each band. The LNR actually can cover two bands with one wire and no tuning but the higher band is a full wavelength (e.g. 40/20 with one 66' wire or 20/10 with one 33' wire).

Larry AE4LD will be introducing a EF-10/40 Hiker beta unit for QRP this weekend at the Raleigh Hamfest. It weighs ~3.5 oz and includes some sort of wire storage. I'll have one in a few days and will report when I get it.

73, Bill W4ZV

10762. RE: EFHA antenna, WAS: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 11:09:07 UTC
From: Mike Olbrisch
Topic: 10673 Message: 10762

Bill - I am very much interested in hearing about it. Especially, is it 40m, 30m, 30m, 17m, 15m, 12m and 10m.... or 40m, 20m, 10m, or ???? Weight of the tuning unit?

thanks much sir....

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of bill_w4zv
Sent: Thursday, March 28, 2013 04:28
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: EFHW tuner

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>
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73, Bill W4ZV

Yahoo! Groups Links

10763. Re: [AT_Sprint] Button problem ATS3 new member

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 02:03:45 UTC
From: Bill Smith
Topic: 10727 Message: 10763

Steve, thanks but Dale is sending some to me tomorrow. They are black ones so I will need to be retrained in the use of my ATS3 when I get them in hi hi - I have used my ATS3 every day since I built it and it has become my main shack rig, as the FT990 has been gathering dust for years. Don’t know when I have had so much fun with Ham Radio. Thanks de WA6YPE dit dit

---
From: Steven Weber <steve.kd1jv@gmail.com>
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, March 27, 2013 6:54 PM
Subject: Re: [AT_Sprint] Button problem ATS3 new member

Yes, I have spare switches. I'll look up your address and send a couple off to you.
Steve KD1JV

> Hi all I am a very long time QRPer who just loves his ATS3. However, I
> seem to have a problem and need some advice. After years of use my memory
> button started functioning intermittently then finally went out all
> together. It is probably just worn out and needs replacement. My question
> is how to get another button. Any help out there?
> de WA6YPE (Bill)
>

10764. Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 02:06:34 UTC
From: ke7ngo11
Topic: 10673 Message: 10764

You should take a look at what Steve Yates, AA5TB has to say about The End Fed Half Wave Antenna.

http://www.aa5tb.com/efha.html

- clayton, ke7ngo

10765. MTR Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 11:39:06 UTC
From: jsmallp
Topic: 10765 Message: 10765

I'll be using the 10.8V lithium ion battery from my Bosch drill to power my MTR. It is rated at 1.3 Ah and can be bought for less than $30.

W9FHA

10766. Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 12:48:52 UTC
From: ve3wmb
Topic: 10665 Message: 10766

Another option for 40m/20m would be to go with a 66 ft EFHW for 40m but
break it into two sections using a small insulator that you can bridge with a cliplead
(think Segmented SOTA dipole). Then moving a single cliplead would allow you
to switch between a 40m & 20m EFHW and still use the same EFHW tuner.
This is a bit more work than some sort of trap mechanism but it is efficient,
simple and cheap.

In fact what you can do is use fishing snap swivels to physically connect the second 33ft
section to the end insulator so if you are only planning to work 20m then you don't need to
physically attach the second 33 ft length. You can erect it as an inverted vee for 40m and
on 20m you end up with an end fed sloping dipole. The only disadvantage is you need
to drop the center of the antenna to switch bands.

Michael VE3WMB

P.S. The 40m/20m scenario above could of course also be applied to 30m/20m, with
the total length of the antenna being a half wave for 30m with the split located so that
opening the cliplead connection gives you the EFHW for 20m.

--- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@...> wrote:
>
> How about a 33' radiator for both 20 and 40? On 20 use the EFHW matchbox...on 40 remove it and add a single 33' radial fed directly as a 1/4 wave vertical. See "Using an EF-20 matchbox on 40M ☐ Another Solution" at the very bottom of this page:
>
> http://www.lnrprecision.com/tech-notes/
>
> 73, Bill
>
> --- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@> wrote:
> >
> > I've only activated a few times on 30M, but one reason I'm leaning toward
> > 30M is that QRM, whether unintentional or intentional, seems far too
> > prevalent on 40M cw. Also, 30M means a smaller wire antenna or better
> > AlexLoop (my snow antenna) efficiency.
> >
> > Barry N1EU
> >
> > On Wed, Mar 27, 2013 at 2:08 PM, Lee Hiers <lee.hiers@> wrote:
> >
> > > **
> > >
> > >
> > > On Wed, Mar 27, 2013 at 9:44 AM, cloud runner <just.one.hill@>wrote:
> > >

> > > Yes, i would choose 30M. Most SOTA activations take place in summer and
> > >> mid-day since one has to drive, hike, and set up. 40M mid-day in
> > >> summer presents high absorption making 40M very difficult. Out here in the
> > >> Rockies, there may be no one, zero contacts, on 40M under such
> > >> circumstances.
> > >>
> > >
> > > I'm still not convinced, although that is the way I was leaning. It could
> > > be a difference between the Southeast and the Rockies though.
> > >
> > > I had a number of failed SOTA activation attempts last summer due to
> > > lightning. In our corner of the country, thunderstorms are an almost daily
> > > occurrence during the summer...they often start as early as 11 am (or even
> > > earlier). I don't want to be on a mountain when a T-storm comes through,
> > > and was not able to reliably plan an activation around the WX until fall.
> > > By then, 40m worked fine here during the day with many "local" contacts.
> > > I also wonder if it could just be regional - with the greater population
> > > density in the East, 40m may just be more viable year 'round for us.
> > >
> > > And I'm concerned that 30m isn't "local enough".
> > >
> > > I suppose I could try one or the other and then change my band selection
> > > if it just didn't work out like I'd like. I haven't looked at the manual,
> > > but there should only be a few caps and a couple of toroids to change,
> > > along with the band-change resistor, correct?
> > >
> > > 73 de Lee
> > > --
> > > Lee Hiers, AA4GA
> > > www.aa4ga.com
> > >
> > > Submit your totals to the unofficial QRP DXCC standings - go to *
> > > http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
> > >
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>

10767. Re: [AT_Sprint] Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 13:17:09 UTC
From: WVØH
Topic: 10665 Message: 10767
Attachments: 1 described; binary payloads are missing from this source WARC

Phil AD5X made a backpackable 100-Watt, 10-40m switched dipole.

http://www.ad5x.com/images/Articles/Dipole%20RevA.pdf

I made a different version of the same thing but it covers all bands from 6-30m, no coils. All bands are full sized and yet it wouldn't take much to add 40, 60, and 80 to the design. I changed his design a bit and changed the coax and wire out and replaced it with a single pair from Cat5 cable and a switchable balun that I redesigned from the Elecraft BL-2. The switches are the smallest Radio Shack DPDT micro switches for a total weight of 5.323 oz including the balun. All packs inside a quart sized Baggie, although I recommend a kite string spool to keep it manageable.

The Cat5 TP has the same loss as RG-58 and can lay next to other metal, ground, obstructions with little effect because of the tight coupling (twisting) after all, there are three other pairs that lay next to each other in the sheath with very little coupling. Yes, they have different twist pitches but still.

As for power handling at 100-Watts? Well, the balun was tested at 100-Watts and I wouldn't hesitate putting 100-Watts into RG-58/Cat5.

I support my switched dipole with a 23' carbon fiber fishing pole (which has no effect on my dipole) up 20.5 feet (bends over slightly). The 20.5 feet vertical transmission line is a tuned length to target the feed point impedance to either 50 or 200 Ohms through ALL bands.

Please see wv0h.blogspot.com for more details.

Myron WVØH
Printed on Recycled Data

On Mar 28, 2013, at 6:48 AM, "ve3wmb" <mbabineau@...> wrote:

> Another option for 40m/20m would be to go with a 66 ft EFHW for 40m but
> break it into two sections using a small insulator that you can bridge with a cliplead
> (think Segmented SOTA dipole). Then moving a single cliplead would allow you
> to switch between a 40m & 20m EFHW and still use the same EFHW tuner.
> This is a bit more work than some sort of trap mechanism but it is efficient,
> simple and cheap.
>
> In fact what you can do is use fishing snap swivels to physically connect the second 33ft section to the end insulator so if you are only planning to work 20m then you don't need to
> physically attach the second 33 ft length. You can erect it as an inverted vee for 40m and on 20m you end up with an end fed sloping dipole. The only disadvantage is you need
> to drop the center of the antenna to switch bands.
>
> Michael VE3WMB

>
> P.S. The 40m/20m scenario above could of course also be applied to 30m/20m, with
> the total length of the antenna being a half wave for 30m with the split located so that
> opening the cliplead connection gives you the EFHW for 20m.
>
> --- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@...> wrote:
> >
> > How about a 33' radiator for both 20 and 40? On 20 use the EFHW matchbox...on 40 remove
it and add a single 33' radial fed directly as a 1/4 wave vertical. See "Using an EF-20
matchbox on 40M – Another Solution" at the very bottom of this page:
> >
> > http://www.lnrprecision.com/tech-notes/
> >
> > 73, Bill
> >
> > --- In AT_Sprint@yahoogroups.com, Barry N1EU <n1eu.barry@> wrote:
> > >
> > > I've only activated a few times on 30M, but one reason I'm leaning toward
> > > 30M is that QRM, whether unintentional or intentional, seems far too
> > > prevalent on 40M cw. Also, 30M means a smaller wire antenna or better
> > > AlexLoop (my snow antenna) efficiency.
> > >
> > > Barry N1EU
> > >
> > > On Wed, Mar 27, 2013 at 2:08 PM, Lee Hiers <lee.hiers@> wrote:
> > >
> > > > **
> > > >
> > > >
> > > > On Wed, Mar 27, 2013 at 9:44 AM, cloud runner <just.one.hill@>wrote:
> > > >
> > > > Yes, i would choose 30M. Most SOTA activations take place in summer and
> > > >> mid-day since one has to drive, hike, and set up. 40M mid-day in
> > > >> summer presents high absorption making 40M very difficult. Out here in the
> > > >> Rockies, there may be no one, zero contacts, on 40M under such
> > > >> circumstances.
> > > >>
> > > >
> > > > I'm still not convinced, although that is the way I was leaning. It could
> > > > be a difference between the Southeast and the Rockies though.
> > > >
> > > > I had a number of failed SOTA activation attempts last summer due to
> > > > lightning. In our corner of the country, thunderstorms are an almost daily
> > > > occurrence during the summer...they often start as early as 11 am (or even
> > > > earlier). I don't want to be on a mountain when a T-storm comes through,
> > > > and was not able to reliably plan an activation around the WX until fall.
> > > > By then, 40m worked fine here during the day with many "local" contacts.
> > > > I also wonder if it could just be regional - with the greater population
> > > > density in the East, 40m may just be more viable year 'round for us.
> > > >

> > > > And I'm concerned that 30m isn't "local enough".
> > > >
> > > > I suppose I could try one or the other and then change my band selection
> > > > if it just didn't work out like I'd like. I haven't looked at the manual,
> > > > but there should only be a few caps and a couple of toroids to change,
> > > > along with the band-change resistor, correct?
> > > >
> > > > 73 de Lee
> > > > --
> > > > Lee Hiers, AA4GA
> > > > www.aa4ga.com
> > > >
> > > > Submit your totals to the unofficial QRP DXCC standings - go to *
> > > > http://www.aa4ga.com/p/qrp-dxcc.html* for more info!
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>

10768. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 13:39:52 UTC
From: Chris Maness
Topic: 10673 Message: 10768

Yes that article is essential to understanding the theory behind the antenna, and the practical tips therein helped me to achieve stability on 15m.

Regards,
Chris KQ6UP
On Mar 28, 2013 5:39 AM, "ke7ngo11" <wc.heilman@...> wrote:

> You should take a look at what Steve Yates, AA5TB has to say about The End
> Fed Half Wave Antenna.
>
>
> http://www.aa5tb.com/efha.html
>
>
>
> - clayton, ke7ngo
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

10769. new MTR case - anybody not want theirs?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 14:20:53 UTC
From: TJ Campie
Topic: 10769 Message: 10769

I figure its a long shot but I lose nothing by asking... Does anybody NOT want their new MTR case? I was really hoping to have one before June...

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

10770. single length end fed for 40m 20, and 15m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 14:26:11 UTC
From: Alan Shapiro
Topic: 10665 Message: 10770

My 40m half wave end-fed with KI6J tuner with a simple mod works for 40, 20, and 15m. Here is the explanation: as long as you have an integral number of half wave lengths you are good to go. A 40m half wave length equals 2 half waves on 20m and 3 on 15m. The mod to the tuner is to use only the smaller capacitance section of the polyvaricon for the higher frequencies. Do this to get a lower base capacitance to work with. Thanks to Fred, KT5X, for this idea.

Alan, NM5S

10771. Re: [AT_Sprint] single length end fed for 40m 20, and 15m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 14:41:16 UTC
From: Barry N1EU
Topic: 10665 Message: 10771

Yes, but it's going to be a challenge to orient that 66ft wire so that a radiation lobe points in the desired direction of propagation on every band. You have 2 lobes on 40M (max@0deg to broadside), 4 lobes on 20M (max@36deg), and 6 lobes on 15M (max@50deg)

Barry N1EU

On Thu, Mar 28, 2013 at 2:26 PM, Alan Shapiro <nm5s@...> wrote:

> **
>
>
> My 40m half wave end-fed with KI6J tuner with a simple mod works for 40,
> 20, and 15m. Here is the explanation: as long as you have an integral
> number of half wave lengths you are good to go. A 40m half wave length
> equals 2 half waves on 20m and 3 on 15m. The mod to the tuner is to use
> only the smaller capacitance section of the polyvaricon for the higher
> frequencies. Do this to get a lower base capacitance to work with.
> Thanks to Fred, KT5X, for this idea.
>
> Alan, NM5S
>
>

10772. Re: MTR kit arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 15:03:58 UTC
From: zigmundrat
Topic: 10729 Message: 10772

LOL. It's all good. It's really nice to see people excited about ham radio, kit building, and operating. We really owe it to Steve, keeping the spirit alive. Hopefully he's got the energy and the patience to stay with it a while longer. It's not easy doing these kit runs.

Patiently (or not :) waiting for my kit arrive,
Paul - K9MR

--- In AT_Sprint@yahoogroups.com, James Fehling <n2jfdny@...> wrote:
>
> Could be #148
> On Mar 27, 2013 5:44 PM, "zigmundrat" <yahoogroups13@...>
> wrote:
>
> > **
> >
> >
> > Hrm... I thought *I* had #149...
> >
> > --- In AT_Sprint@yahoogroups.com, James Fehling <n2jfdny@> wrote:
> > >
> > > #149 arrived in long island new York today
> > > On Mar 27, 2013 5:04 PM, "TJ Campie" <tom.campie@> wrote:
> > >
> >
> >
> >
>

10773. Re: [AT_Sprint] MTR #175 and more photos of the new enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 15:13:31 UTC
From: Steven Weber
Topic: 10744 Message: 10773

Would maybe a bunch of AAA cells fit in there?

Not quite. They would if you didn't need a battery holder, so if you can tack weld jumper straps to the ends like ni-cad bundles use, you probably could.

10774. Re: [AT_Sprint] MTR #175 and more photos of the new enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 15:27:11 UTC
From: Gil G.
Topic: 10744 Message: 10774

Interesting, thank you. I'll evaluate that option after the build.. Couldn't the straps be soldered? Or would the heat damage the batteries?

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 28, 2013, at 11:13 AM, Steven Weber wrote:

>
>
> Would maybe a bunch of AAA cells fit in there?
> Not quite. They would if you didn't need a battery holder, so if you can tack weld jumper straps to the ends like ni-cad bundles use, you probably could.

10775. Re: [AT_Sprint] MTR #191 arrives in California

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 15:30:04 UTC
From: Steven Weber
Topic: 10759 Message: 10775

> I assume the serial numbers are sequential from the first run, and not
> starting with this year's run, but not sure.

Yes, S/N continue from where they left off in the first run.

Steve

10776. battery ideas

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 16:07:37 UTC
From: Steven Weber
Topic: 10776 Message: 10776

Maybe. The metal they use on the ends doesn't take solder well, but I find if you clean it up with a scotchbright pad first, it goes a little easier. You'd want a really hot iron, like a gun so you can make the connection quickly. That would limit the amount of heat transfering into to the battery.

Steve
Interesting, thank you. I'll evaluate that option after the build.. Couldn't the straps be soldered? Or would the heat damage the batteries?

Would maybe a bunch of AAA cells fit in there?

Not quite. They would if you didn't need a battery holder, so if you can tack weld jumper straps to the ends like ni-cad bundles use, you probably could.

10777. Re: [AT_Sprint] battery ideas

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 16:17:25 UTC
From: Philip Townsend Lontz
Topic: 10776 Message: 10777

You can take your batteries to Battery's Plus and they will, for a few bucks, spot weld the battery's together. Much better foe the battery.
Member of the SCO club.
That's Second Class Operators Club.
"Respect my authority" Cartman

On Mar 28, 2013, at 10:07 AM, Steven Weber <steve.kd1jv@...> wrote:

> Maybe. The metal they use on the ends doesn't take solder well, but I find if you clean it up with a scotchbright pad first, it goes a little easier. You'd want a really hot iron, like a gun so you can make the connection quickly. That would limit the amount of heat transfering into to the battery.
>
> Steve
> Interesting, thank you. I'll evaluate that option after the build.. Couldn't the straps be soldered? Or would the heat damage the batteries?
>
>
> Would maybe a bunch of AAA cells fit in there?
>> Not quite. They would if you didn't need a battery holder, so if you can tack weld jumper straps to the ends like ni-cad bundles use, you probably could.
>
>

10778. MTR # 49 .... It's here in Santa Fe, New Mexico!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 16:41:18 UTC
From: Philip Townsend Lontz
Topic: 10744 Message: 10778

The mailman just drove up and placed it directly in my hands!
It's SO small!
Think Ill take it to the Ozarkcon QRP meet next week in Branson, Mo.
Road trip! Alan NM5S aka Mountain Goat is planning that route that will include some SOTA activations.

"Respect my authority" Cartman
Member in pretty good standing SCO club
(second class operator) K5SSR

On Mar 27, 2013, at 8:52 PM, "Gil G." <gil@...> wrote:

> Would maybe a bunch of AAA cells fit in there?
>
>
> Gil.
> --
> PGP Key: http://keskydee.com/gil.asc
>
> On Mar 27, 2013, at 5:38 PM, mdweezer wrote:
>
>>
>> MTR #175 arrived today - snapped some more shots of the enclosure for those who are interested. It's tremendously solid! Enjoy.
>>
>> http://w2mdw.blogspot.com/2013/03/steve-webers-mountain-toper-radio-mtr.html
>>
>> -Matt, W2MDW
>>
>
>

10779. Re: [AT_Sprint] battery ideas

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 17:10:00 UTC
From: Gil G.
Topic: 10776 Message: 10779

Thank you Sir, I might try that… If I do I will post photos...

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 28, 2013, at 12:07 PM, Steven Weber wrote:

>
> Maybe. The metal they use on the ends doesn't take solder well, but I find if you clean it up with a scotchbright pad first, it goes a little easier. You'd want a really hot iron, like a gun so you can make the connection quickly. That would limit the amount of heat transfering into to the battery.
>
> Steve

10780. Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 19:01:11 UTC
From: bill_w4zv
Topic: 10665 Message: 10780

--- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@...> wrote:
>
> Another option for 40m/20m would be to go with a 66 ft EFHW

Any antenna longer than ~40' is a non-starter for me. Ideally I want to cover both 40 and 20 with one 33' piece of wire and no "lumps" to get hung up in tree branches. Configuring a 33' wire on 40 as a 1/4 wave vertical will work but it requires too complex a ground system for portable operation. On 40m I've been able to tune a 33' wire > PAR EF-10/40 matchbox > ZM-2 tuner. I'm in the process of testing to see if that radiates well enough to be heard. I don't need much efficiency on 40 since most contacts are within a few hundred miles. Will post here if RBNs can hear me!

73, Bill W4ZV

10781. Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 20:06:12 UTC
From: bill_w4zv
Topic: 10665 Message: 10781

--- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@...> wrote:
>
>
>
> --- In AT_Sprint@yahoogroups.com, "ve3wmb" <mbabineau@> wrote:
> >
> > Another option for 40m/20m would be to go with a 66 ft EFHW
>
> Any antenna longer than ~40' is a non-starter for me. Ideally I want to cover both 40 and 20 with one 33' piece of wire and no "lumps" to get hung up in tree branches. Configuring a 33' wire on 40 as a 1/4 wave vertical will work but it requires too complex a ground system for portable operation. On 40m I've been able to tune a 33' wire > PAR EF-10/40 matchbox > ZM-2 tuner. I'm in the process of testing to see if that radiates well enough to be heard. I don't need much efficiency on 40 since most contacts are within a few hundred miles. Will post here if RBNs can hear me!

This is a straight 33' vertical wire > PAR EF-10/40 > ZM-2. ZM-2 tuning was a bit critical but this may be "good enough":

W4AX W4ZV 1 dB 248 miles WSW
WZ7I W4ZV 12 dB 443 miles NE
W4KKN W4ZV 11 dB 270 miles NNE
NY3A W4ZV 14 dB 353 miles NNE

My next experiment was testing a trapped 20/30 EFHW vertical about 40.5' overall through the same ZM-2 tuner. No grounds for either test BTW.

W4KKN K4URE 13 dB 270 miles NNE
NY3A K4URE 21 dB 353 miles NNE
W3LPL K4URE 8 dB 320 miles NNE
WZ7I K4URE 22 dB 443 miles NE
K1TTT K4URE 9 dB 622 miles NE

This was a little better since the overall length is 40.5' versus 33' with some center loading due to the 20m trap. Tuning was not quite as critical on the ZM-2 compared to the first antenna. I picked up a couple of new RBNs but dropped W4AX in GA. The price for the better signal is longer wire plus one "lump" due to the 20m trap.

These tests were ~20 minutes apart but more testing will be done at different times of day. I need to determine if the 33' wire alone is sufficient for 40m since I really prefer its physical simplicity.

73, Bill W4ZV

10782. Re: [AT_Sprint] Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-28 22:20:59 UTC
From: Steven Weber
Topic: 10665 Message: 10782

> These tests were ~20 minutes apart but more testing will be done at
> different times of day. I need to determine if the 33' wire alone is
> sufficient for 40m since I really prefer its physical simplicity.
>

The problem with a 33 foot antenna on 40 is that is a 1/4 wave and therefore low impedance of about 50 ohms, so a tuner designed for high impedance isn't going to like it. Making it a bit longer will rise the impedance, making it easier to match with a high impedance tuner.

The ideal 40/20 EFHW is a bit shorter then 66 feet to make the impedance a bit lower then really high. That's why I recommend about 51 feet for my L tuner. This is a litte shorter then 1/2 wave on 40 and full wave on 20. For 30, different length is required, since you want to be in the neighbor hood of 1/2 wave or multipels for an EFHW.

When they added the non-harmomically related WARC bands, it tossed a monkey wrench into multi-band antenna design...

Steve KD1JV

10783. RE: [AT_Sprint] MTR Battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 00:58:52 UTC
From: Mike Olbrisch
Topic: 10765 Message: 10783

Really?

A 1.3 AH Li-Po costs $9.95, and only weighs 115 grams (4 ounces).

The advantage to your drill battery is you have it. The disadvantage is that it is heavier, and when you need to replace it, the cost is 3 times more. At $9.95, the Sky Lipo is almost a throw-away.

The 800 MAH is only about $7, weighs 70 grams (2.5 ounces), and will run any of the AT series radios for hours. That is what I keep in a small pouch with the ATS-4.

There are smaller and lighter solutions - for pennies.... but again, you have the drill battery.

Good luck with it.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of jsmallp
Sent: Thursday, March 28, 2013 05:39
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] MTR Battery

I'll be using the 10.8V lithium ion battery from my Bosch drill to power my MTR. It is rated at 1.3 Ah and can be bought for less than $30.

W9FHA

Yahoo! Groups Links

10784. Re: [AT_Sprint] MTR #191 arrives in California

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 01:35:39 UTC
From: wmorrill@...
Topic: 10759 Message: 10784

The Pony Express finally arrived here in Montana with MTR#192. Thanks, Steve.
Most prominences near here are above the tree line, so naturally
occurring antenna supports will be hard to find for SOTA activation. Guys
thanks for posting information concerning EFHW and other antennas. Am
still trying various wire lengths and tuners in the back yard before
heading to the hills.
Cheers es 73.

>> I assume the serial numbers are sequential from the first run, and not
>> starting with this year's run, but not sure.
>
> Yes, S/N continue from where they left off in the first run.
>
> Steve
>
>

10785. MTR Surface mount parts placement

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 03:11:48 UTC
From: Skyridr
Topic: 10785 Message: 10785

To reduce the chances of placing resistors and capacitors in the wrong places, a fine tipped felt pen can be used to mark between the solder pads where components of a similar value should go. The marks will be covered by the component, of course.

I still use the old fashioned solder iron method of mounting components. Tweezers that are small and light are used to move small components around on the pcb. The tweezers are designed for handling insect eggs. I use an assembly platform that is 7 inches square on a 4 inch frame. The platform is recessed about 1/4 inch down from the top of the frame, this helps to keep parts from sliding away to wherever those sm things go. I can post some photos if anyone is interested.

Wendell N7WM

10786. Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 03:15:06 UTC
From: russellhulett
Topic: 10665 Message: 10786

I never investigated why, but using ATS-3B portable from Poirier Lake, Ontario, a 34' wire connected to a KI6J EFHW tuner worked well on 20M and 30M with no setting changes and no counterpoise. Others reported same experience which is why I only took the 20M and 30M modules with me to the lake.

Have contemplated building a fixed matching network based on the settings from that tuner to go with my new MTR which plan building for 20 and 30.

73, Curt KB5JO

10787. MTR S/N 201 in Michigan

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 03:34:33 UTC
From: Hank Greeb
Topic: 10787 Message: 10787

Thanks! Steve.

Now,who wants to bet on the total number ofMTRs in this batch?

72/73 de n8xx Hg

10788. Re: [AT_Sprint] MTR S/N 201 in Michigan

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 03:40:06 UTC
From: TJ Campie
Topic: 10787 Message: 10788

Steve said unequivocally that there were 150 I think

On Thursday, March 28, 2013, Hank Greeb wrote:

> **
>
>
> Thanks! Steve.
>
> Now, who wants to bet on the total number of MTRs in this batch?
>
> 72/73 de n8xx Hg
>
>

--
73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

10789. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 04:25:24 UTC
From: Hank Greeb
Topic: 10673 Message: 10789

I made an antenna back in 1952 which worked FB on 80/40 and 11 Meters - the three bands for which I had crystals at the time. It was a "invertedL" length to gofrom one outbuilding (shack) and another (our cow barn). I "guessed" at about 100' of wire, don't thinkI ever measured it. My pappy (Then w?hzp, now SK) taught be by example to throw up a wire between two convenient points, end feed itthrough a low loss impedance matching device and forgetall the calculations. Actually, I didn'toperate on 40 until later in 1952, when I got my general ticket.

Over the years I've found that most any wire fed at the end will work on any band. If it's fed at one end,it works best if it's around 1/4 wavelength at the longest wavelength one desires to use. Center feeding gets critical and a bit unpredictable ifit's much lower than 3/8 wavelength. Seems like if a 15 year old novice can built such an antenna which managed about 40 states on 80 meters, and VK2 on 11 meters (the one and only contact I remember on 11 meters), it oughta be easy now a daze with computer modeling, etc.

I haven't experimented much with end feeding anything but a 33' chunk of wire for 40/30/20 meters recently. It works fine as a vertical, supported by a 31' Jackite pole, with a 33' counterpoise, and a LDG Z-100 ATU impedancematching device. Yep, I "made" this antenna - as I made my 130' center fed dipole, which I usually use as an inverted V, but sometimes as ahorizontal radiator.

Of course,any antenna is a matterof choice and often, of compromise. To me, mechanicalsimplicity is of high value, that's why I have one pole, currently at 32feet high but capable of being40 feet or higher, and and the attached 130feet of wire is configuredas an inverted V. I haven't bothered tofigure out theradiation pattern, but I worka "reasonable" smattering of domestic and DX stations during various contests.

The 130' wire isn't very portable, but for "easier"mountain topping (anything less than the 14er's of the Coloradioand surrounding states which have theRocky Mountains) a Jackite pole or lightercarbonfibre pole, a hunk ofwire and a versatile impedance matching device like Steven Weber's L-match tuner is a fair tomiddling excuse for a radiator on most any band 40 thru 10 meters.

72/73 de n8xx Hg
QRP >99.44% of the time

On 3/27/2013 11:25 PM, Mike Olbrisch wrote:
>
> Ummmmm..... I didn't write anything about TUNER.It was ALL
> ANTENNA.Sorry - it is what it is.....

>
> I was saying it would be nice if THEY made an antenna for 15-30-60m
> like THEY make an antenna for 10-20-40m.THEY is certainly not KD1JV,
> who makes great radios but not EFHWAs - AFAIK.
>
> Sorry you mis-understood.
>
> Mike - KD9KC.

10790. Re: MTR S/N 201 in Michigan

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 06:05:03 UTC
From: Colin
Topic: 10787 Message: 10790

Steve posted earlier that the first batch of MTRs was for 150 off, serial numbers 1 to 150 inclusive, and the second batch was also for 150 off units, but with only 149 being offered for sale as he was keeping the last the last one for himself. Serial numbers for the second batch start at 151 and must go up to 300 inclusive.

73, Colin, M0CGH

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
> Thanks! Steve.
>.
> Now,who wants to bet on the total number ofMTRs in this batch?
>
> 72/73 de n8xx Hg
>

10791. Re: [AT_Sprint] MTR Surface mount parts placement

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 06:55:58 UTC
From: F5mpw
Topic: 10785 Message: 10791

Yes somes photos will be appraciate, I often have problems to translate messages of the list.... if possible chose easy words ;-)
thank you everybody.
Philippe

----- Original Message -----
From: Skyridr
To: AT_Sprint@yahoogroups.com
Sent: Friday, March 29, 2013 4:11 AM
Subject: [AT_Sprint] MTR Surface mount parts placement

To reduce the chances of placing resistors and capacitors in the wrong places, a fine tipped felt pen can be used to mark between the solder pads where components of a similar value should go. The marks will be covered by the component, of course.

I still use the old fashioned solder iron method of mounting components. Tweezers that are small and light are used to move small components around on the pcb. The tweezers are designed for handling insect eggs. I use an assembly platform that is 7 inches square on a 4 inch frame. The platform is recessed about 1/4 inch down from the top of the frame, this helps to keep parts from sliding away to wherever those sm things go. I can post some photos if anyone is interested.

Wendell N7WM

10792. Re: MTR Surface mount parts placement

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 10:31:56 UTC
From: jer terez
Topic: 10785 Message: 10792

go to: AT Sprint Group

go to: photos

go to : AA1OF

it was the first run kit

72/73

10793. Re: My 1st "mountain topping" with my ATS-3b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 11:33:13 UTC
From: dk7fh
Topic: 10726 Message: 10793

Thank you all for encouraging me!

I am looking forward to radio-contacting other at-sprint-fans if not from the Matterhorn, then perhaps from the Eiffel tower (lift provided, hi) or just the 600 m hill behind my parents house...

73s, Frank

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
> Don't worry, the virus with which you've been infected is one of the
> several beneficial retroviruses which ward off or cure diseases. :)
>
> p.s. Nice Writeup! Good DX, OM! When will you climbthe Matterhorn?
> Please let us know, and we'll all be looking for you on 20, 17, or 15
> meters!
>
> p.p.s. Make a list of "everything" needed for an outing. That's the
> only way I've found to minimize (but not eliminate) the "%$#^& why did I
> forget that" moment on an outdoor operation.
>
> On 3/27/2013 2:42 PM, dk7fh wrote:
> > Now, it seems, I am infected by the virus of performing ham operation by using minimalized equipment outside in nature.

10794. Re: MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 12:54:59 UTC
From: ve3wmb
Topic: 10665 Message: 10794

Steve et al :

I have used the recommended 51 footer with my ALT tuner for years and it does match very well on 40m / 20m. If you want to use it on 30m the match isn't quite as good but rolling up a couple of feet of the wire at the end fixes it for 30m.

Michael VE3WMB

P.S. The ALT is a brilliant design. Very simple but effective, the only issue of course is making sure that you don't lose the little 2 pin headers, but I found that using the pliers on my little leatherman tool to move the headers around is a lot easier than fingers.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> > These tests were ~20 minutes apart but more testing will be done at
> > different times of day. I need to determine if the 33' wire alone is
> > sufficient for 40m since I really prefer its physical simplicity.
> >
>
> The problem with a 33 foot antenna on 40 is that is a 1/4 wave and therefore
> low impedance of about 50 ohms, so a tuner designed for high impedance isn't
> going to like it. Making it a bit longer will rise the impedance, making it
> easier to match with a high impedance tuner.
>
> The ideal 40/20 EFHW is a bit shorter then 66 feet to make the impedance a
> bit lower then really high. That's why I recommend about 51 feet for my L
> tuner. This is a litte shorter then 1/2 wave on 40 and full wave on 20. For
> 30, different length is required, since you want to be in the neighbor hood
> of 1/2 wave or multipels for an EFHW.
>
> When they added the non-harmomically related WARC bands, it tossed a monkey
> wrench into multi-band antenna design...
>
> Steve KD1JV
>

10795. Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 13:04:08 UTC
From: ve3wmb
Topic: 10673 Message: 10795

Hank et al :

Perhaps the "best" length of end-fed wire for coverage of the HF spectrum with an L tuner is 86 feet. This is not near a multiple of a half wave on any of the HF bands with perhaps the exception of 10m so it presents a reasonable impedance that can be matched with a tuner. It is not surprising that this is close to the 84 ft length of the W3EDP, as W3EDP arrived at his 84ft length by repeatedly starting with 100 ft of wire and chopping 4 feet off at a time and trying it out for a few days until he found that 84 feet seemed to work the best.

I have found that 86 ft of #26 AWG Silver-plated teflon coated wire will easily fit on a camping clothesline reel and can be deployed as an inverted-L or inverted vee in the field with pretty decent results for an all band wire.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
> I made an antenna back in 1952 which worked FB on 80/40 and 11 Meters -
> the three bands for which I had crystals at the time. It was a
> "invertedL" length to gofrom one outbuilding (shack) and another (our
> cow barn). I "guessed" at about 100' of wire, don't thinkI ever
> measured it. My pappy (Then wØhzp, now SK) taught be by example to
> throw up a wire between two convenient points, end feed itthrough a low
> loss impedance matching device and forgetall the calculations. Actually,
> I didn'toperate on 40 until later in 1952, when I got my general ticket.
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> Over the years I've found that most any wire fed at the end will work on
> any band. If it's fed at one end,it works best if it's around 1/4
> wavelength at the longest wavelength one desires to use. Center feeding
> gets critical and a bit unpredictable ifit's much lower than 3/8
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> one and only contact I remember on 11 meters), it oughta be easy now a
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> I haven't experimented much with end feeding anything but a 33' chunk of
> wire for 40/30/20 meters recently. It works fine as a vertical,
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> Z-100 ATU impedancematching device. Yep, I "made" this antenna - as I
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> but sometimes as ahorizontal radiator.
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> Of course,any antenna is a matterof choice and often, of compromise. To
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> > who makes great radios but not EFHWAs - AFAIK.
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> > Sorry you mis-understood.
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> > Mike - KD9KC.
>

10796. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 13:13:32 UTC
From: WA0ITP
Topic: 10673 Message: 10796

Agreed on the 84 footer, it works well for me
http://www.wa0itp.com/portableops.html

I love this radio stuff !
72 WA?ITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "ve3wmb" <mbabineau@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Friday, March 29, 2013 8:04 AM
Subject: [AT_Sprint] Re: EFHW tuner

Hank et al :

Perhaps the "best" length of end-fed wire for coverage of the HF spectrum with an
L tuner is 86 feet. This is not near a multiple of a half wave on any of the HF bands
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and chopping 4 feet off at a time and trying it out for a few days until he found that
84 feet seemed to work the best.

I have found that 86 ft of #26 AWG Silver-plated teflon coated wire will easily fit on
a camping clothesline reel and can be deployed as an inverted-L or inverted vee
in the field with pretty decent results for an all band wire.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
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> loss impedance matching device and forgetall the calculations. Actually,

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> > Sorry you mis-understood.
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> > Mike - KD9KC.
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Yahoo! Groups Links

10797. MTR Faceplate

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 14:10:54 UTC
From: paradoxpete.pdm@...
Topic: 10797 Message: 10797

I've uploaded a PSP file of my faceplate for the original MTR.
I've added Steve's latest MTR Logo!
Photos also in G4ISJ folder.

Feel free to use and modify.

Pete
G4ISJ

10798. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 14:39:57 UTC
From: Chris Maness
Topic: 10673 Message: 10798

Has anyone modeled the 84' v. the 86'? It would be interesting if anyone found any difference.

Regards,
Chris Maness KQ6UP

On Fri, Mar 29, 2013 at 6:13 AM, WA0ITP <wa0itp@...> wrote:

> Agreed on the 84 footer, it works well for me
> http://www.wa0itp.com/portableops.html
>
> ----------
> I love this radio stuff !
> 72 WAØITP
> www.wa0itp.com
> www.4sqrp.com
> www.qrpspots.com
>
>
>
> ----- Original Message -----
> From: "ve3wmb" <mbabineau@...>
> To: <AT_Sprint@yahoogroups.com>
> Sent: Friday, March 29, 2013 8:04 AM
> Subject: [AT_Sprint] Re: EFHW tuner
>
>
> Hank et al :
>
> Perhaps the "best" length of end-fed wire for coverage of the HF spectrum
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> an
> L tuner is 86 feet. This is not near a multiple of a half wave on any of
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> Michael VE3WMB
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> Yahoo! Groups Links
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10799. QRP tuner batteries ant video

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 14:45:56 UTC
From: F5mpw
Topic: 10799 Message: 10799

Nice site for tuner, qrp and video...
philippe F5MPW

http://home.alphalink.com.au/~parkerp/projects/projlma.htm

-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o-o

10800. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 14:51:56 UTC
From: Chris Maness
Topic: 10673 Message: 10800

Also, has anyone tried using an isolation transformer three feet down from a EFHW antenna to isolate the common mode RF that limits deployment to short lengths of coax, or would several turns of RG-174 around a toroid be sufficient to isolate the antenna from common mode currents as well? I don't always want to have to be stuck feeding the thing very close to the tuner.

Thanks,
Chris KQ6UP

On Fri, Mar 29, 2013 at 7:39 AM, Chris Maness <chris@chrismaness.com> wrote:

> Has anyone modeled the 84' v. the 86'? It would be interesting if anyone
> found any difference.
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> Regards,
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> On Fri, Mar 29, 2013 at 6:13 AM, WA0ITP <wa0itp@...> wrote:
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>> > > Sorry you mis-understood.
>> > >
>> > > Mike - KD9KC.
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>> ------------------------------------
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>> Yahoo! Groups Links
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10801. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 15:07:07 UTC
From: Mike Olbrisch
Topic: 10673 Message: 10801

Probably no difference at all... both are very close to the Cebik classic 88 foot doublet.

Vy73 - Mike - KD9KC.
El Paso, Texas. - DM61rt.
W5-SOTA Association Manager.
NA-SOTA Info: www.na-sota.org/

-------- Original message --------
From: Chris Maness <chris@chrismaness.com>
Date:
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: EFHW tuner

Has anyone modeled the 84' v. the 86'? It would be interesting if anyone found any difference.

Regards,
Chris Maness KQ6UP

On Fri, Mar 29, 2013 at 6:13 AM, WA0ITP <wa0itp@mchsi.com> wrote:
Agreed on the 84 footer, it works well for me
http://www.wa0itp.com/portableops.html

I love this radio stuff !
72 WAØITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "ve3wmb" <mbabineau@magma.ca>
To: <AT_Sprint@yahoogroups.com>
Sent: Friday, March 29, 2013 8:04 AM
Subject: [AT_Sprint] Re: EFHW tuner

Hank et al :

Perhaps the "best" length of end-fed wire for coverage of the HF spectrum with an
L tuner is 86 feet. This is not near a multiple of a half wave on any of the HF bands
with perhaps the exception of 10m so it presents a reasonable impedance that can be matched with a tuner. It is not surprising that this is close to the 84 ft length of the
W3EDP, as W3EDP arrived at his 84ft length by repeatedly starting with 100 ft of wire

and chopping 4 feet off at a time and trying it out for a few days until he found that
84 feet seemed to work the best.

I have found that 86 ft of #26 AWG Silver-plated teflon coated wire will easily fit on
a camping clothesline reel and can be deployed as an inverted-L or inverted vee in the field with pretty decent results for an all band wire.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
> I made an antenna back in 1952 which worked FB on 80/40 and 11 Meters -
> the three bands for which I had crystals at the time. It was a
> "invertedL" length to gofrom one outbuilding (shack) and another (our
> cow barn). I "guessed" at about 100' of wire, don't thinkI ever
> measured it. My pappy (Then wØhzp, now SK) taught be by example to
> throw up a wire between two convenient points, end feed itthrough a low
> loss impedance matching device and forgetall the calculations. Actually,
> I didn'toperate on 40 until later in 1952, when I got my general ticket.
>
> Over the years I've found that most any wire fed at the end will work on
> any band. If it's fed at one end,it works best if it's around 1/4
> wavelength at the longest wavelength one desires to use. Center feeding
> gets critical and a bit unpredictable ifit's much lower than 3/8
> wavelength. Seems like if a 15 year old novice can built such an antenna
> which managed about 40 states on 80 meters, and VK2 on 11 meters (the
> one and only contact I remember on 11 meters), it oughta be easy now a
> daze with computer modeling, etc.
>
> I haven't experimented much with end feeding anything but a 33' chunk of
> wire for 40/30/20 meters recently. It works fine as a vertical,
> supported by a 31' Jackite pole, with a 33' counterpoise, and a LDG
> Z-100 ATU impedancematching device. Yep, I "made" this antenna - as I
> made my 130' center fed dipole, which I usually use as an inverted V,
> but sometimes as ahorizontal radiator.
>
> Of course,any antenna is a matterof choice and often, of compromise. To
> me, mechanicalsimplicity is of high value, that's why I have one pole,
> currently at 32feet high but capable of being40 feet or higher, and and
> the attached 130feet of wire is configuredas an inverted V. I haven't
> bothered tofigure out theradiation pattern, but I worka "reasonable"
> smattering of domestic and DX stations during various contests.
>
> The 130' wire isn't very portable, but for "easier"mountain topping
> (anything less than the 14er's of the Coloradioand surrounding states
> which have theRocky Mountains) a Jackite pole or lightercarbonfibre
> pole, a hunk ofwire and a versatile impedance matching device like
> Steven Weber's L-match tuner is a fair tomiddling excuse for a radiator
> on most any band 40 thru 10 meters.

>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>
> On 3/27/2013 11:25 PM, Mike Olbrisch wrote:
> >
> > Ummmmm..... I didn't write anything about TUNER.It was ALL
> > ANTENNA.Sorry - it is what it is.....
> >
> > I was saying it would be nice if THEY made an antenna for 15-30-60m
> > like THEY make an antenna for 10-20-40m.THEY is certainly not KD1JV,
> > who makes great radios but not EFHWAs - AFAIK.
> >
> > Sorry you mis-understood.
> >
> > Mike - KD9KC.
>

Yahoo! Groups Links

Yahoo! Groups Links

10802. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 15:38:58 UTC
From: cloud runner
Topic: 10673 Message: 10802

It will be completely different current distribution if fed on the end rather than in middle

fred - kt5x

Probably no difference at all... both are very close to the Cebik classic 88 foot doublet.

Vy73 - Mike - KD9KC.
El Paso, Texas. - DM61rt.
W5-SOTA Association Manager.
NA-SOTA Info: www.na-sota.org/

-------- Original message --------
From: Chris Maness <chris@...>
Date:
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: EFHW tuner

Has anyone modeled the 84' v. the 86'? It would be interesting if anyone found any difference.

Regards,
Chris Maness KQ6UP

On Fri, Mar 29, 2013 at 6:13 AM, WA0ITP <wa0itp@...> wrote:

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I love this radio stuff !
72 WAØITP
www.wa0itp.com
www.4sqrp.com
www.qrpspots.com

----- Original Message -----
From: "ve3wmb" <mbabineau@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Friday, March 29, 2013 8:04 AM
Subject: [AT_Sprint] Re: EFHW tuner

Hank et al :

Perhaps the "best" length of end-fed wire for coverage of the HF spectrum with an
L tuner is 86 feet. This is not near a multiple of a half wave on any of the HF bands

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I have found that 86 ft of #26 AWG Silver-plated teflon coated wire will easily fit on
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Michael VE3WMB

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> I didn'toperate on 40 until later in 1952, when I got my general ticket.
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> gets critical and a bit unpredictable ifit's much lower than 3/8
> wavelength. Seems like if a 15 year old novice can built such an antenna
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> but sometimes as ahorizontal radiator.
>
> Of course,any antenna is a matterof choice and often, of compromise. To
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>
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> (anything less than the 14er's of the Coloradioand surrounding states
> which have theRocky Mountains) a Jackite pole or lightercarbonfibre
> pole, a hunk ofwire and a versatile impedance matching device like
> Steven Weber's L-match tuner is a fair tomiddling excuse for a radiator
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>
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> QRP >99.44% of the time
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> > Ummmmm..... I didn't write anything about TUNER.It was ALL
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> > who makes great radios but not EFHWAs - AFAIK.
> >
> > Sorry you mis-understood.
> >
> > Mike - KD9KC.
>

Yahoo! Groups Links

Yahoo! Groups Links

10803. Re:: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 15:49:04 UTC
From: cloud runner
Topic: 10803 Message: 10803

I remember reading that trying to keep the common mode off the coax is not a good idea in this instance.

Further, keeping the coax short IS a good idea. In fact, I often use no coax at all, mount the radio on the pole with direct connection, but right now am using a five foot piece of RG-174.

Am getting ready to do some tests on tuner efficiency. Getting a match isn't always a good thing. it may be a dummy load ;-)

fred - kt5x

Also, has anyone tried using an isolation transformer three feet down from a EFHW antenna to isolate the common mode RF that limits deployment to short lengths of coax, or would several turns of RG-174 around a toroid be sufficient to isolate the antenna from common mode currents as well? I don't always want to have to be stuck feeding the thing very close to the tuner.

Thanks,
Chris KQ6UP

.

10804. Re: [AT_Sprint] Re:: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 20:08:12 UTC
From: Chris Maness
Topic: 10803 Message: 10804

Yes, there needs to be a small counterpoise. The common mode on the coax is the counterpoise, so I was suggesting putting the choke at three feet from the antenna so that longer there is still some common mode current.

Chris KQ6UP
On Mar 29, 2013 8:48 AM, "cloud runner" <just.one.hill@...> wrote:

> **
>
>
> I remember reading that trying to keep the common mode off the coax is not
> a good idea in this instance.
>
> Further, keeping the coax short IS a good idea. In fact, I often use no
> coax at all, mount the radio on the pole with direct connection, but right
> now am using a five foot piece of RG-174.
>
> Am getting ready to do some tests on tuner efficiency. Getting a match
> isn't always a good thing. it may be a dummy load ;-)
>
> fred - kt5x
>
>
>
>
>
>
> Also, has anyone tried using an isolation transformer three feet down from
> a EFHW antenna to isolate the common mode RF that limits deployment to
> short lengths of coax, or would several turns of RG-174 around a toroid be
> sufficient to isolate the antenna from common mode currents as well? I
> don't always want to have to be stuck feeding the thing very close to the
> tuner.
>
> Thanks,
> Chris KQ6UP
>
>
> .
>
>
>
>

10805. Re: battery ideas

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 23:51:59 UTC
From: Zachary L
Topic: 10776 Message: 10805

Just a thought.

I picked up a YSD-998 battery LI-ion on eBay for < 40$ US. Light weight, 3 output voltages 5vdc at 15000 mAh, 9vdc 8500 mAh, and 12vdc 15000 mAh (This is what they claim anyway). It came with the very small wall charger. The only strange thing is the battery must be turned on to charge (red and green led indicate charging, red light only means finished).

I liked the 9 volt output for tuning and 12 volt for QRP High Power. Not sure the long term quality of this battery yet, time will tell. Been using it with my KX3 without problem and it was plug and play with its included cables.

Will be using this with the MTR for sure!

73's

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Maybe. The metal they use on the ends doesn't take solder well, but I find if you clean it up with a scotchbright pad first, it goes a little easier. You'd want a really hot iron, like a gun so you can make the connection quickly. That would limit the amount of heat transfering into to the battery.
>
> Steve
> Interesting, thank you. I'll evaluate that option after the build.. Couldn't the straps be soldered? Or would the heat damage the batteries?
>
>
>
> Would maybe a bunch of AAA cells fit in there?
>
> Not quite. They would if you didn't need a battery holder, so if you can tack weld jumper straps to the ends like ni-cad bundles use, you probably could.
>

10806. MTR SN/157 and S/N221 (buddy build) arrived in Houston!`

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-29 23:56:25 UTC
From: Zachary L
Topic: 10806 Message: 10806

Thanks Steve.
My wife was asking why I was so happy to get a priority mail box with bags in it!
Looking forward to the build as soon as I can! SITREP to follow.

73's to all

10807. RE: [AT_Sprint] Re: battery ideas

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 01:10:00 UTC
From: Mike Olbrisch
Topic: 10776 Message: 10807

My experience with the Chinese batteries (not your exact unit) has been that they work, but do not meet their ratings except MAYBE at a very low load-rate.

I had an engineer friend check one of the "blue" models, and the 9800 MAH promised turned out to be about 5600 MAH at a 1-amp load. Since the load was 1 amp, you can interpolate the numbers yourself and get an idea of what it might do.

Of course, JMHO - YMMV - MDHF and all that.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Zachary L
Sent: Friday, March 29, 2013 17:52
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: battery ideas

Just a thought.

I picked up a YSD-998 battery LI-ion on eBay for < 40$ US. Light weight, 3 output voltages 5vdc at 15000 mAh, 9vdc 8500 mAh, and 12vdc 15000 mAh (This is what they claim anyway). It came with the very small wall charger. The only strange thing is the battery must be turned on to charge (red and green led indicate charging, red light only means finished).

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Will be using this with the MTR for sure!

73's

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Couldn't the straps be soldered? Or would the heat damage the batteries?
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>
>
> Would maybe a bunch of AAA cells fit in there?
>
> Not quite. They would if you didn't need a battery holder, so if you can tack weld jumper straps to the ends like ni-cad bundles use, you probably could.
>

Yahoo! Groups Links

10808. Re: battery ideas

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 04:15:54 UTC
From: Zachary L
Topic: 10776 Message: 10808

I figured that too. Just noticed the typo! 6500 MAH not 15000 at 12vdc. I plan on working up the current profile of the MTR to see how many hours of normal operation I can predict vs the real life capability of this battery (low current load test. Li-ion batteries are not so happy with high current testing).

Thank you for the input. I will post the results when I have more details.

73's
.
--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> My experience with the Chinese batteries (not your exact unit) has been that
> they work, but do not meet their ratings except MAYBE at a very low
> load-rate.
>
> I had an engineer friend check one of the "blue" models, and the 9800 MAH
> promised turned out to be about 5600 MAH at a 1-amp load. Since the load
> was 1 amp, you can interpolate the numbers yourself and get an idea of what
> it might do.
>
> Of course, JMHO - YMMV - MDHF and all that.
>
> Mike - KD9KC.
>
> -----Original Message-----
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of Zachary L
> Sent: Friday, March 29, 2013 17:52
> To: AT_Sprint@yahoogroups.com
> Subject: [AT_Sprint] Re: battery ideas
>
>
>
> Just a thought.
>
> I picked up a YSD-998 battery LI-ion on eBay for < 40$ US. Light weight, 3
> output voltages 5vdc at 15000 mAh, 9vdc 8500 mAh, and 12vdc 15000 mAh (This
> is what they claim anyway). It came with the very small wall charger. The
> only strange thing is the battery must be turned on to charge (red and green
> led indicate charging, red light only means finished).
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> sure the long term quality of this battery yet, time will tell. Been using
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> cables.

>
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> > Maybe. The metal they use on the ends doesn't take solder well, but I find
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> You'd want a really hot iron, like a gun so you can make the connection
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> > Interesting, thank you. I'll evaluate that option after the build..
> Couldn't the straps be soldered? Or would the heat damage the batteries?
> >
> >
> >
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> > Not quite. They would if you didn't need a battery holder, so if you
> can tack weld jumper straps to the ends like ni-cad bundles use, you
> probably could.
> >
>
>
>
>
> ---
>
> Yahoo! Groups Links
>

10809. Re: battery ideas

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 04:34:58 UTC
From: jgaffke
Topic: 10776 Message: 10809

If the YSD-998's power switch must be on for 12v to come out,
maybe rewire the battery directly to 12v out. Then the switching
power supplies for 5 and 9v won't be cooking up hash for your radio.
That thing should run an MTR for a month's hike.

This one too, and then start your Geo Metro if you left lights on:
http://www.hobbypartz.com/77p-sl5000-3s1p-30c-3333.html
Weighs under a pound and delivers 150 Amps?

Does Sky Lipo stuff work? Meet spec?
Any other favored brands?

Jerry, KE7ER

10810. MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 07:56:25 UTC
From: Gil G.
Topic: 10810 Message: 10810
Attachments: 1 described; binary payloads are missing from this source WARC

Just completed it, works great! Thanks Mr Weber!

If anyone is wondering if a BNC fits instead of the RCA plug, it does…
Ah, and R45 is 102.. It's on the schematic only..

Gil.
--
PGP Key: http://keskydee.com/gil.asc

10811. Re: [AT_Sprint] MTR Faceplate

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 11:55:26 UTC
From: Johnny Matlock
Topic: 10797 Message: 10811

Nice label Pete!
72
Johnny AC0BQ

On Friday, March 29, 2013, wrote:

> **
>
>
> I've uploaded a PSP file of my faceplate for the original MTR.
> I've added Steve's latest MTR Logo!
> Photos also in G4ISJ folder.
>
> Feel free to use and modify.
>
> Pete
> G4ISJ
>
>
>

10812. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 15:05:09 UTC
From: jgaffke
Topic: 10810 Message: 10812

Looks like R45 is new to this build, inserted into the collector
of Q2. Find it under the IF crystal filter.
Another good spot to add a resistor might be to pull up
the dot line, like R44 in the dash line.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
> Ah, and R45 is 102.. It's on the schematic only..

10813. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 15:21:35 UTC
From: Colin
Topic: 10810 Message: 10813

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Another good spot to add a resistor might be to pull up
> the dot line, like R44 in the dash line.
> Jerry, KE7ER
>

Does the processor not have internal pull ups?
I would have thought that it would.

73, Colin, M0CGH
(struggling with anticipation!)

10814. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 15:52:45 UTC
From: jgaffke
Topic: 10810 Message: 10814

On page 32 of http://www.ti.com/lit/ds/symlink/msp430f2132.pdf
it says the MSP430's internal pullups are between 20K and 50K.

So, looks like the MSP430 has good solid internal pullups.
But leaves me wondering why R44 is in there.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Colin" <m0cgh@...> wrote:
>
>
>
> --- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@> wrote:
> >
> > Another good spot to add a resistor might be to pull up
> > the dot line, like R44 in the dash line.
> > Jerry, KE7ER
> >
>
> Does the processor not have internal pull ups?
> I would have thought that it would.
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> 73, Colin, M0CGH
> (struggling with anticipation!)
>

10815. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 17:08:38 UTC
From: Colin
Topic: 10810 Message: 10815

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> On page 32 of http://www.ti.com/lit/ds/symlink/msp430f2132.pdf
> it says the MSP430's internal pullups are between 20K and 50K.
>
> So, looks like the MSP430 has good solid internal pullups.
> But leaves me wondering why R44 is in there.
>

I've just looked at the schematic Jerry and my guess is that R44 is there to prevent the 3.3volt regulator from burning out due to being being shorted out to ground by the dash line. The resistor will serve to limit current being drawn when the dash paddle is closed.

Without the resistor, you would effectively just be shorting the regulator output to ground every time you keyed the rig.

73, Colin

10816. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 17:18:45 UTC
From: Colin
Topic: 10810 Message: 10816

>
> I've just looked at the schematic Jerry and my guess is that R44 is there to prevent the 3.3volt regulator from burning out due to being being shorted out to ground by the dash line. The resistor will serve to limit current being drawn when the dash paddle is closed.
>
> Without the resistor, you would effectively just be shorting the regulator output to ground every time you keyed the rig.
>
> 73, Colin
>

Scrap that, on closer inspection I see that the dash line is not connected to anything else. So whilst my explanation is valid for what R44 actually does, I'm not too sure why its fitted.

I'll put my thinking cap back on!!

Colin

10817. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 17:35:16 UTC
From: n1rx
Topic: 10810 Message: 10817

I believe R44 is there as a second pullup on the dash line to insure that input cap (C54) is actually charged when the MCU "wakes up". This is beacuse that line is used to put the rig into "straight key" mode if it is low on power up. (dash paddle held in on power up).
73,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Colin" <m0cgh@...> wrote:
>
>
> >
> > I've just looked at the schematic Jerry and my guess is that R44 is there to prevent the 3.3volt regulator from burning out due to being being shorted out to ground by the dash line. The resistor will serve to limit current being drawn when the dash paddle is closed.
> >
> > Without the resistor, you would effectively just be shorting the regulator output to ground every time you keyed the rig.
> >
> > 73, Colin
> >
>
> Scrap that, on closer inspection I see that the dash line is not connected to anything else. So whilst my explanation is valid for what R44 actually does, I'm not too sure why its fitted.
>
> I'll put my thinking cap back on!!
>
> Colin
>

10818. Re: [AT_Sprint] MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 17:29:31 UTC
From: Gil G.
Topic: 10810 Message: 10818

Hello,

Well, only one issue so far: With a 10.8V power supply I get 1.2W out on 40m and 3.3W on 20m. I spaced the turns on the toroids, peaked the receiver, centered the BFO on the sidetone, all works great, but how can i up the power to the advertised numbers?

Thanks,

Gil.
--
PGP Key: http://keskydee.com/gil.asc

10819. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 17:41:50 UTC
From: Colin
Topic: 10810 Message: 10819

Thanks Bruce! That makes sense, I had forgotten about the external keyed / straight key mode.

I'll stick to assembly rather than circuit design!

Really looking forward to building my batch two rig.

73, Colin

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
>
> I believe R44 is there as a second pullup on the dash line to insure that input cap (C54) is actually charged when the MCU "wakes up". This is beacuse that line is used to put the rig into "straight key" mode if it is low on power up. (dash paddle held in on power up).
> 73,
> Bruce, N1RX
>
> --- In AT_Sprint@yahoogroups.com, "Colin" <m0cgh@> wrote:
> >
> >
> > >
> > > I've just looked at the schematic Jerry and my guess is that R44 is there to prevent the 3.3volt regulator from burning out due to being being shorted out to ground by the dash line. The resistor will serve to limit current being drawn when the dash paddle is closed.
> > >
> > > Without the resistor, you would effectively just be shorting the regulator output to ground every time you keyed the rig.
> > >
> > > 73, Colin
> > >
> >
> > Scrap that, on closer inspection I see that the dash line is not connected to anything else. So whilst my explanation is valid for what R44 actually does, I'm not too sure why its fitted.
> >
> > I'll put my thinking cap back on!!
> >
> > Colin
> >
>

10820. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 17:54:55 UTC
From: n1rx
Topic: 10810 Message: 10820

20M power level sounds fine.
I would begin by making _absolutely_ sure that you have the correct number of turns on the 40M LPF toroids. Remember, once through the core is a turn. People often put an extra turn by counting turns around the outside, not passes through the middle.
GL,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
>
> Hello,
>
> Well, only one issue so far: With a 10.8V power supply I get 1.2W out on 40m and 3.3W on 20m. I spaced the turns on the toroids, peaked the receiver, centered the BFO on the sidetone, all works great, but how can i up the power to the advertised numbers?
>
> Thanks,
>
> Gil.
> --
> PGP Key: http://keskydee.com/gil.asc
>

10821. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 18:01:23 UTC
From: Colin
Topic: 10810 Message: 10821

Hi Gil,

Sounds like you are mostly there with your MTR. Sorry for the thread hijack!

Have you been through the suggested troubleshooting hints?

Are you sure that the TX lowpass filters are in the correct positions? I found it was quite difficult to understand which band fitted where until I really studied the manual.

Poor joints on toroid are easy to make and could be at fault.

Hope you get it sorted.

73, Colin, M0CGH

--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
>
> Hello
>
> Well, only one issue so far: With a 10.8V power supply I get 1.2W out on 40m and 3.3W on 20m. I spaced the turns on the toroids, peaked the receiver, centered the BFO on the sidetone, all works great, but how can i up the power to the advertised numbers?
>
> Thanks,
>
> Gil.
> --
> PGP Key: http://keskydee.com/gil.asc
>

10822. Re: [AT_Sprint] MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 18:23:24 UTC
From: Gil G.
Topic: 10810 Message: 10822

Thanks guys. Yes, I count turns the right way, but I'll double check.. It was the end of the build and I was tired.. Two five hour sessions.. The receiver works great. I just had a QSO with a friend on 20m, he was booming in real loud. He heard me just fine too. I am just a bit worried about power on 40m, 1.2W isn't much.. I'll get back to it later today or tomorrow, right now, I realized I forgot to eat since lunch yesterday and I'm starving! If I built kits every day I'd get real skinny!

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 30, 2013, at 1:54 PM, n1rx wrote:

> 20M power level sounds fine.
> I would begin by making _absolutely_ sure that you have the correct number of turns on the 40M LPF toroids. Remember, once through the core is a turn. People often put an extra turn by counting turns around the outside, not passes through the middle.
> GL,
> Bruce, N1RX
>
>
>
> Hi Gil,
>
> Sounds like you are mostly there with your MTR. Sorry for the thread hijack!
> Have you been through the suggested troubleshooting hints?
> Are you sure that the TX lowpass filters are in the correct positions? I found it was quite difficult to understand which band fitted where until I really studied the manual.
> Poor joints on toroid are easy to make and could be at fault.

10823. MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 18:38:57 UTC
From: Joseph Trombino, Jr
Topic: 10810 Message: 10823

For those in the group who have already built their new MTR kits I am interested if there are any "glitches" or "gotchas" to be aware of??
Are all the parts the correct ones??

Many thanks as I gear up the 68 year old eyes for another go at SMD building.

73, Joe W2KJ
I QRP, therefore I am

10824. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 18:40:04 UTC
From: Colin
Topic: 10810 Message: 10824

Lol at the weight loss!

Well at least you know that the TX is working fine as all is common between the two bands until the low pass filter switch S7. It has to be a problem with either with the switch (dry joint?) or 40m low pass filter.

73 and good luck.
Colin
--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
>
> Thanks guys. Yes, I count turns the right way, but I'll double check.. It was the end of the build and I was tired.. Two five hour sessions.. The receiver works great. I just had a QSO with a friend on 20m, he was booming in real loud. He heard me just fine too. I am just a bit worried about power on 40m, 1.2W isn't much.. I'll get back to it later today or tomorrow, right now, I realized I forgot to eat since lunch yesterday and I'm starving! If I built kits every day I'd get real skinny!
>
> Gil.
> --
> PGP Key: http://keskydee.com/gil.asc
>
> On Mar 30, 2013, at 1:54 PM, n1rx wrote:
>
> > 20M power level sounds fine.
> > I would begin by making _absolutely_ sure that you have the correct number of turns on the 40M LPF toroids. Remember, once through the core is a turn. People often put an extra turn by counting turns around the outside, not passes through the middle.
> > GL,
> > Bruce, N1RX
> >
> >
> >
> > Hi Gil,
> >
> > Sounds like you are mostly there with your MTR. Sorry for the thread hijack!
> > Have you been through the suggested troubleshooting hints?
> > Are you sure that the TX lowpass filters are in the correct positions? I found it was quite difficult to understand which band fitted where until I really studied the manual.
> > Poor joints on toroid are easy to make and could be at fault.
>

10825. Re: [AT_Sprint] MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 19:22:53 UTC
From: Hank Greeb
Topic: 10810 Message: 10825

After looking over the parts for the MTR, my advice is:

1. Buy a magnifying glass, and be sure of the types and values of the parts as you put them on the board
or
2. Ask if someone on this list would like extra practice building another board for a nominal price.

I'm considering which one of the above I'll choose.

As for "all the parts the correct values" - from what I've heard, Steve does an super job of providing the correct parts. And, if for some reason you lose a part while sorting or putting them on board, Steve will typically replace one or two parts for no charge or a nominal donation.

Hank

On 3/30/2013 2:38 PM, Joseph Trombino, Jr wrote:
> For those in the group who have already built their new MTR kits I am interested if there are any "glitches" or "gotchas" to be aware of??
> Are all the parts the correct ones??
>
> Many thanks as I gear up the 68 year old eyes for another go at SMD building.
>
> 73, Joe W2KJ
> I QRP, therefore I am
>
> ----------
>
> Yahoo! Groups Links
>
>
>
>

10826. Re: [AT_Sprint] MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 19:25:07 UTC
From: Gil G.
Topic: 10810 Message: 10826

Only one missing reference to R45, which is marked 102.
Everything went smoothly...

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 30, 2013, at 2:38 PM, Joseph Trombino, Jr wrote:

> For those in the group who have already built their new MTR kits I am interested if there are any "glitches" or "gotchas" to be aware of??
> Are all the parts the correct ones??

10827. Re: MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 20:01:08 UTC
From: Colin
Topic: 10810 Message: 10827

Hi Hank,

It's unfortunate that there's several thousand miles between us as I would be honoured to build your MTR. I do surface mount soldering for a living, usually 0603 size.

So far one ham has taken me up on my offer to build his rig, so. I'm really looking forward to doing a first class job for him. I'm just thrilled that I'll get to build two MTR s this time around :)

73, Colin

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
> After looking over the parts for the MTR, my advice is:
>
> 1. Buy a magnifying glass, and be sure of the types and values of the
> parts as you put them on the board
> or
> 2. Ask if someone on this list would like extra practice building
> another board for a nominal price.
>
> I'm considering which one of the above I'll choose.
>
> As for "all the parts the correct values" - from what I've heard, Steve
> does an super job of providing the correct parts. And, if for some
> reason you lose a part while sorting or putting them on board, Steve
> will typically replace one or two parts for no charge or a nominal donation.
>
> Hank
>
> On 3/30/2013 2:38 PM, Joseph Trombino, Jr wrote:
> > For those in the group who have already built their new MTR kits I am interested if
there are any "glitches" or "gotchas" to be aware of??
> > Are all the parts the correct ones??
> >
> > Many thanks as I gear up the 68 year old eyes for another go at SMD building.
> >
> > 73, Joe W2KJ
> > I QRP, therefore I am
> >
> > ----------
> >
> > Yahoo! Groups Links
> >
> >
> >

> >
>

10828. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 21:29:07 UTC
From: Chris Maness
Topic: 10673 Message: 10828

Just for kicks I modeled the difference between the 86 and a 84 foot longwire. The two extra feet put it out of range of an L network with a 24micro henri variable inductor and 3900pF variable cap on all but two bands. The reactance was negative on all bands accept for 10m. I guess a couple of feet can make a difference.

73 KQ6UP
Chris

On Fri, Mar 29, 2013 at 8:07 AM, Mike Olbrisch <mike-2007@...> wrote:

>
>
> Probably no difference at all... both are very close to the Cebik classic
> 88 foot doublet.
>
>
> Vy73 - Mike - KD9KC.
> El Paso, Texas. - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA Info: www.na-sota.org/
>
>
>
>
> -------- Original message --------
> From: Chris Maness <chris@...>
> Date:
> To: AT_Sprint@yahoogroups.com
> Subject: Re: [AT_Sprint] Re: EFHW tuner
>
>
> Has anyone modeled the 84' v. the 86'? It would be interesting if anyone
> found any difference.
>
> Regards,
> Chris Maness KQ6UP
>
>
> On Fri, Mar 29, 2013 at 6:13 AM, WA0ITP <wa0itp@...> wrote:
>
>> Agreed on the 84 footer, it works well for me
>> http://www.wa0itp.com/portableops.html
>>
>> ----------
>> I love this radio stuff !

>> 72 WAØITP
>> www.wa0itp.com
>> www.4sqrp.com
>> www.qrpspots.com
>>
>>
>>
>> ----- Original Message -----
>> From: "ve3wmb" <mbabineau@...>
>> To: <AT_Sprint@yahoogroups.com>
>> Sent: Friday, March 29, 2013 8:04 AM
>> Subject: [AT_Sprint] Re: EFHW tuner
>>
>>
>> Hank et al :
>>
>> Perhaps the "best" length of end-fed wire for coverage of the HF spectrum
>> with
>> an
>> L tuner is 86 feet. This is not near a multiple of a half wave on any of
>> the HF
>> bands
>> with perhaps the exception of 10m so it presents a reasonable impedance
>> that can
>> be matched with a tuner. It is not surprising that this is close to the
>> 84 ft
>> length of the
>> W3EDP, as W3EDP arrived at his 84ft length by repeatedly starting with
>> 100 ft of
>> wire
>> and chopping 4 feet off at a time and trying it out for a few days until
>> he
>> found that
>> 84 feet seemed to work the best.
>>
>> I have found that 86 ft of #26 AWG Silver-plated teflon coated wire will
>> easily
>> fit on
>> a camping clothesline reel and can be deployed as an inverted-L or
>> inverted vee
>> in the field with pretty decent results for an all band wire.
>>
>> Michael VE3WMB
>>
>> --- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>> >
>> > I made an antenna back in 1952 which worked FB on 80/40 and 11 Meters -
>> > the three bands for which I had crystals at the time. It was a
>> > "invertedL" length to gofrom one outbuilding (shack) and another (our
>> > cow barn). I "guessed" at about 100' of wire, don't thinkI ever

>> > measured it. My pappy (Then wØhzp, now SK) taught be by example to
>> > throw up a wire between two convenient points, end feed itthrough a low
>> > loss impedance matching device and forgetall the calculations. Actually,
>> > I didn'toperate on 40 until later in 1952, when I got my general ticket.
>> >
>> > Over the years I've found that most any wire fed at the end will work on
>> > any band. If it's fed at one end,it works best if it's around 1/4
>> > wavelength at the longest wavelength one desires to use. Center feeding
>> > gets critical and a bit unpredictable ifit's much lower than 3/8
>> > wavelength. Seems like if a 15 year old novice can built such an antenna
>> > which managed about 40 states on 80 meters, and VK2 on 11 meters (the
>> > one and only contact I remember on 11 meters), it oughta be easy now a
>> > daze with computer modeling, etc.
>> >
>> > I haven't experimented much with end feeding anything but a 33' chunk of
>> > wire for 40/30/20 meters recently. It works fine as a vertical,
>> > supported by a 31' Jackite pole, with a 33' counterpoise, and a LDG
>> > Z-100 ATU impedancematching device. Yep, I "made" this antenna - as I
>> > made my 130' center fed dipole, which I usually use as an inverted V,
>> > but sometimes as ahorizontal radiator.
>> >
>> > Of course,any antenna is a matterof choice and often, of compromise. To
>> > me, mechanicalsimplicity is of high value, that's why I have one pole,
>> > currently at 32feet high but capable of being40 feet or higher, and and
>> > the attached 130feet of wire is configuredas an inverted V. I haven't
>> > bothered tofigure out theradiation pattern, but I worka "reasonable"
>> > smattering of domestic and DX stations during various contests.
>> >
>> > The 130' wire isn't very portable, but for "easier"mountain topping
>> > (anything less than the 14er's of the Coloradioand surrounding states
>> > which have theRocky Mountains) a Jackite pole or lightercarbonfibre
>> > pole, a hunk ofwire and a versatile impedance matching device like
>> > Steven Weber's L-match tuner is a fair tomiddling excuse for a radiator
>> > on most any band 40 thru 10 meters.
>> >
>> > 72/73 de n8xx Hg
>> > QRP >99.44% of the time
>> >
>> > On 3/27/2013 11:25 PM, Mike Olbrisch wrote:
>> > >
>> > > Ummmmm..... I didn't write anything about TUNER.It was ALL
>> > > ANTENNA.Sorry - it is what it is.....
>> > >
>> > > I was saying it would be nice if THEY made an antenna for 15-30-60m
>> > > like THEY make an antenna for 10-20-40m.THEY is certainly not KD1JV,
>> > > who makes great radios but not EFHWAs - AFAIK.
>> > >
>> > > Sorry you mis-understood.
>> > >
>> > > Mike - KD9KC.

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10829. Re: [AT_Sprint] Re: EFHW tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-30 23:35:48 UTC
From: Mike WA8BXN
Topic: 10673 Message: 10829

Chris,

I expect there is no easy way to model it, but I wonder what impact trees have near the antenna. If a couple feet of wire can make a difference, I would suspect that trees, particularly nearby ones as one might have with a temporary field antenna, might have even more impact than wire length. It might be that being able to add or remove say 5 feet of wire could make the difference of getting matches or not in a forest (or elsewhere).

73 - Mike WA8BXN

-------Original Message-------

From: Chris Maness
Date: 3/30/2013 5:29:10 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: EFHW tuner

Just for kicks I modeled the difference between the 86 and a 84 foot longwire. The two extra feet put it out of range of an L network with a 24micro henri variable inductor and 3900pF variable cap on all but two bands The reactance was negative on all bands accept for 10m. I guess a couple of feet can make a difference.

73 KQ6UP

Chris

10830. MTR SN/238

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 02:13:13 UTC
From: Keith Hamilton
Topic: 10830 Message: 10830

MTR SN/238 arrived safely in the mail today! Thank you Steve!

I have a couple of smt practice kits to build before I tackle my precious MTR kit!

73 Keith N8CEP

10831. Re: [AT_Sprint] Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 03:02:09 UTC
From: Steven Weber
Topic: 10810 Message: 10831

```
>>
>> Another good spot to add a resistor might be to pull up
>> the dot line, like R44 in the dash line.
>> Jerry, KE7ER
>>
>
> Does the processor not have internal pull ups?
> I would have thought that it would.
>
Yes this processor has internal pull ups.

However, the dash input is also used for the pocketdigi interface and that
port needs a well defined voltage of 1/2 the supply for the proper action
of converting the sine input from a sound card to square waves. Therefore,
that port required adding the external pull up, while the other didn't.

Steve KD1JV
```

10832. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 05:51:38 UTC
From: jgaffke
Topic: 10810 Message: 10832

Steve,
Thanks for the explanation on R44.
Is R45 the only change between builds of the MTR?
Should the fastidious consider hacking R45 into their older rig?
Jerry, KE7ER

10833. Early Spring SOTA - Blue Mtn

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 18:21:57 UTC
From: steve_wg0at
Topic: 10833 Message: 10833

https://plus.google.com/photos/112295522990729632882/albums/5861505975770184945/5861506262652070690

Steve/wGOAT

10834. MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 18:40:39 UTC
From: Skyridr
Topic: 10174 Message: 10834

I am part way through assembly of MTR #192, and have notices a few things. Steve states that the highest frequency band should be assigned BND1. Keep this in mind when the band specific resistors are installed on page 8, or you might need to change them.

On page 9, capacitors for BND2 are listed as C74, C75, and C75. Check the circuit on page 22 to find the correct values for C74, C75, and C76.

The kit included the correct number of resistors, good job, Steve!

One strip of capacitors was not marked, they measured to be 330p.

I make my share of assembly errors. To help find misplaced capacitors, I marked all 101, 103, and 104s with green, red, or black dots. These are the most common, and were installed before the others. Yes, I found one that was wrong, and it could be identified by the colored dot.

I use a DIY capacitance/inductor meter with a test lead made from a small alligator clip. It works good, even with these small chips.

Good luck with your kits.

Wendell
N7WM

10835. First MTR DX!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 18:50:31 UTC
From: Gil G.
Topic: 10835 Message: 10835

Hello everyone, and happy Easter :-)

First DX last night with the MTR on 40m: Estonia, 5200 miles, 1.2W!
I am still having a low power issue on 40m: 1.3W at 11V. 20m: 3.3W.
Everything else works great apparently.. Still scratching my head..
Ah, and my antenna is a PAR End-Fed 40/20/10, top is about 50' up.

Gil.

10836. Re: [AT_Sprint] MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 18:50:53 UTC
From: Gil G.
Topic: 10174 Message: 10836

On Sun, 2013-03-31 at 18:40 +0000, Skyridr wrote:
>
> I am part way through assembly of MTR #192, and have notices a few
> things. Steve states that the highest frequency band should be
> assigned BND1. Keep this in mind when the band specific resistors are
> installed on page 8, or you might need to change them.

Hi,

Interesting about the bands. I did set up 20m as band 1, 40m as band 2.
When looking at the case, the switches are to the right for 20m, and
left for 40m. Is this normal?
I am still having a low power issue on 40m: 1.3W at 11V. 20m: 3.3W.

Gil.

10837. MTR s/n 216 arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 19:56:37 UTC
From: Anthony
Topic: 10837 Message: 10837

Just returned from a little getaway, and happy to find my Mountain Topper kit was home waiting for me.

I need to get a few SMD specialty tools (i.e. hotplate, etc.) together before I start the build. I'm looking forward to giving it a go though. The kit & new case look great!

Anthony - W6GC

10838. Using flux paste

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 13:59:44 UTC
From: k4byf050431
Topic: 10838 Message: 10838

This is my first attempt at soldering in a toaster oven and I would like to know if there is a time limit on how long the paste can be left on the circuit board before it is no longer usable. I probably won't be able to spend more than 30 minutes at a time placing parts.

10839. Re: [AT_Sprint] Using flux paste

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 20:52:17 UTC
From: Johnny Matlock
Topic: 10838 Message: 10839

Ga Robert (Bob?)
I have had great luck putting the "board in progress" carefully in a zip lock bag or Tupperware bowl and slip it in the fridge for a day or two while populating the board. It did not seem to cause a problem.
I think I have heard mention to this here on the reflector.
I first thought what you had placed you had to melt at the end of the day, but not necessarily so!
Good Luck, Happy Easter, 72
Johnny AC0BQ

On Sun, Mar 31, 2013 at 8:59 AM, k4byf050431 <k4byf@...> wrote:

> **
>
>
> This is my first attempt at soldering in a toaster oven and I would like
> to know if there is a time limit on how long the paste can be left on the
> circuit board before it is no longer usable. I probably won't be able to
> spend more than 30 minutes at a time placing parts.
>
>
>

10840. R45

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 21:49:29 UTC
From: Steven Weber
Topic: 10840 Message: 10840

I'm not sure it would make much difference. The reason for adding the resistor is to slow down the responce of the AGC a little to help prevent overshoot. I found when using this circuit in the SSB rig, very strong signals would turn the audio attenuation full on, then take a few seconds to recover as for phone the AGC had a longer time constant. Adding the resistor helped eliminate the problem. I figured it might hlep to add it to the CW version, although it has a much faster T/C so recovers much quicker. Or if someone wanted a higher minimum volume, they could make the resistor value larger.

Steve KD1JV

> Steve,
> Thanks for the explanation on R44.
> Is R45 the only change between builds of the MTR?
> Should the fastidious consider hacking R45 into their older rig?
> Jerry, KE7ER

10841. Re: [AT_Sprint] Using flux paste

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-03-31 21:46:04 UTC
From: <k4byf@...>
Topic: 10838 Message: 10841

Thanks for the info Johnny, I'll give it a try.
---- Johnny Matlock <jomatlock@...> wrote:
> Ga Robert (Bob?)
> I have had great luck putting the "board in progress" carefully in a zip
> lock bag or Tupperware bowl and slip it in the fridge for a day or two
> while populating the board. It did not seem to cause a problem.
> I think I have heard mention to this here on the reflector.
> I first thought what you had placed you had to melt at the end of the day,
> but not necessarily so!
> Good Luck, Happy Easter, 72
> Johnny AC0BQ
>
>
> On Sun, Mar 31, 2013 at 8:59 AM, k4byf050431 <k4byf@...> wrote:
>
> > **
> >
> >
> > This is my first attempt at soldering in a toaster oven and I would like
> > to know if there is a time limit on how long the paste can be left on the
> > circuit board before it is no longer usable. I probably won't be able to
> > spend more than 30 minutes at a time placing parts.
> >
> >
> >

10842. Re: [AT_Sprint] First MTR DX!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-01 01:38:12 UTC
From: Steven Weber
Topic: 10835 Message: 10842

> I am still having a low power issue on 40m: 1.3W at 11V. 20m: 3.3W.
> Everything else works great apparently.. Still scratching my head..

Make sure you didn't reverse the inductors. Also double check the soldering on the chip caps. Hopefully you got the correct values in the correct spots, as finding out if that is wrong could be a real problem without a capacitor meter. You might also have a problem with 20M, 3.3 W is actually more typical with a 9V supply.

Steve

10843. MTR, help with low power on 40m..?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-01 01:58:36 UTC
From: Gil G.
Topic: 10843 Message: 10843
Attachments: 1 described; binary payloads are missing from this source WARC

Hello,

Sorry to bug you guys… I am really scratching my head on this one..
My MTR works great, but I get only a bit more than 1W on 40m (3.3W on 20m), with an 11V supply.
I counted the toroid turns, they are correct. The switches work. I peaked RX, works fine.
The only thing seemingly out of place is the "BandA" trimers on top tune 40m.
The "BandB" trimers tunes 20m… Shouldn't it be the opposite? Band1=BandA I assume..?
When looking at the case, 20m is switches on the right.
Turning the trimers affects RX but not TX output.
The band resistors are in the right place…

What next?

Thanks, any help would be greatly appreciated.

Gil.
--
PGP Key: http://keskydee.com/gil.asc

10844. Re: [AT_Sprint] First MTR DX!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-01 02:07:06 UTC
From: Gil G.
Topic: 10835 Message: 10844

Thank you Sir,

I was really careful placing all the components. The toroids are not inverted..
I posted a help message minutes before seeing your reply, with a little more information..
A capacitor in the wrong place would definitely be a nightmare to identify..

Have a good night,

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Mar 31, 2013, at 9:38 PM, Steven Weber wrote:

> > I am still having a low power issue on 40m: 1.3W at 11V. 20m: 3.3W.
> > Everything else works great apparently.. Still scratching my head..
>
> Make sure you didn't reverse the inductors. Also double check the soldering
> on the chip caps. Hopefully you got the correct values in the correct spots,
> as finding out if that is wrong could be a real problem without a capacitor
> meter. You might also have a problem with 20M, 3.3 W is actually more
> typical with a 9V supply.
>
> Steve
>
>

10845. MTN kit capacitor concerns

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-01 02:32:42 UTC
From: Skyridr
Topic: 10845 Message: 10845

I am struggling with capacitor identification for the MTN_2 kit.

Parts list, page 2: six 150p (151) BRN/GRN/BRN
13 100p (101) BRN/BLK/BRN

page 9: C51 150p (151) BRN/BLK/BRN
C57 150p (151) BRN/BLK/BRN
C47 150P (151) BRN/BLK/BRN

Capacitors that are already installed cannot be checked with the meter unless they are removed from the board.

Anyway this is a heads-up for guys who are just now starting on their kits.

Wendell
N7WM

10846. Re: [AT_Sprint] MTN kit capacitor concerns

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-01 04:43:02 UTC
From: Steven Weber
Topic: 10845 Message: 10846

Clearly I ment BRN/GRN/BRN for 151. Darn cut and paste. Make one mistake and it gets propagted....

>I am struggling with capacitor identification for the MTN_2 kit.
>
> Parts list, page 2: six 150p (151) BRN/GRN/BRN
> 13 100p (101) BRN/BLK/BRN
>
> page 9: C51 150p (151) BRN/BLK/BRN
> C57 150p (151) BRN/BLK/BRN
> C47 150P (151) BRN/BLK/BRN
>
> Capacitors that are already installed cannot be checked with the meter
> unless they are removed from the board.
>
> Anyway this is a heads-up for guys who are just now starting on their
> kits.
>
> Wendell
> N7WM

10847. Re: [AT_Sprint] MTR, help with low power on 40m..?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-01 05:29:09 UTC
From: Steven Weber
Topic: 10843 Message: 10847

Band A trimmers work with Band 2 parts. This is noted in the instructions.
I now realise I can fix this discepentcy, but it will take several hours of moving numbers around on the diagrams, which is why I think it's the way it is.

Just to see what would happen, I swapped the band select resistors. With 7 MHz going through the 14 MHz filter, power out is about 1.3 watts. However, with 14 MHz into the 7 MHz filter, there is no power out - proving the 2nd harmonic trap is pretty effective.

Since you do get power out on 20, the problem at hand isn't that simple but in some way does relate the low pass filter.

Sorry to bug you guys… I am really scratching my head on this one..
My MTR works great, but I get only a bit more than 1W on 40m (3.3W on 20m), with an 11V supply.
I counted the toroid turns, they are correct. The switches work. I peaked RX, works fine.
The only thing seemingly out of place is the "BandA" trimers on top tune 40m.
The "BandB" trimers tunes 20m… Shouldn't it be the opposite? Band1=BandA I assume..?
When looking at the case, 20m is switches on the right.
Turning the trimers affects RX but not TX output.
The band resistors are in the right place…

What next?

Thanks, any help would be greatly appreciated.

Gil.
--
PGP Key: http://keskydee.com/gil.asc

10848. Re: MTR, help with low power on 40m..?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-01 05:46:12 UTC
From: jgaffke
Topic: 10843 Message: 10848

Gil,

With my stock build MTR, switches to the left select 40 meters.
The BANDA trimmers tune the 40 meter rx filter. Same as yours.

I'd suggest switching the rig over to 20 meters, then measuring
capacitance from ground to each of the three nodes around the
now mostly disconnected 40M L12 and L13. Compare those readings
with a rig that works. The coils will mess with the capacitance
readings of different instruments in different ways, so use the
same capacitance meter on both rigs for the comparison.

I bought a UT10A multimeter from dx.com for around $12. Small
enough to pack down the trail, and measures capacitance to within
10 or 20pF. That's usually close enough to verify you got the
right part, though you may want something more accurate to
diagnose your particular problem. Manual is in Chinese,
I wouldn't have read it anyway.

Good Luck!
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
> ... I get only a bit more than 1W on 40m (3.3W on 20m), with 11V

10849. Re: MTN kit capacitor concerns

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-01 10:41:18 UTC
From: ohwenzelph
Topic: 10845 Message: 10849

steve

despite the lack of always finding 100% absolute perfection, your construction manuals are still the very best

jt

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Clearly I ment BRN/GRN/BRN for 151. Darn cut and paste. Make one mistake and
> it gets propagted....
>
>
>
> >I am struggling with capacitor identification for the MTN_2 kit.
> >
> > Parts list, page 2: six 150p (151) BRN/GRN/BRN
> > 13 100p (101) BRN/BLK/BRN
> >
> > page 9: C51 150p (151) BRN/BLK/BRN
> > C57 150p (151) BRN/BLK/BRN
> > C47 150P (151) BRN/BLK/BRN
> >
> > Capacitors that are already installed cannot be checked with the meter
> > unless they are removed from the board.

this is why i buy sharpie felt pens and color code the (otherwise unlabeled) cap, one at a time as i take them out of the strip, with the same color as the strip.

10850. gentle warning

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-02 03:06:11 UTC
From: cloud runner
Topic: 10850 Message: 10850

Got up on a SOTA peak today, and my rig, a first-run MTR, did not transmit. Well, it made dits in the earbuds, but no RF on the Tayloe LED tuning indicator.

THIS could happen to you!

There is a short, as in 1/4 inch, jumper from the PC board to the RCA jack. It is difficult to tighten the nut on the RCA jack tight enough that it can not turn, especially if mounted in a light weigh Altoids tin.

If the RCA plug is tight and resists coming out of the jack, resist twisting it to get it out. If the RCA jack turns, it will snap the 1/4 inch long critical little wire just real quick ;-)

have fun, 73, Fred - KT5X

aka WS0TA

MTR # 94

10851. Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-02 03:42:40 UTC
From: lee
Topic: 10810 Message: 10851

--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:

>
> If anyone is wondering if a BNC fits instead of the RCA plug, it does

What type BNC jack did you use? I assume you had to drill the hole out, correct?

73 de Lee, AA4GA

10852. Re: [AT_Sprint] MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-02 04:41:46 UTC
From: Gil G.
Topic: 10810 Message: 10852

Hello,

Yes, 3/8th, just the regular kind..

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Apr 1, 2013, at 11:42 PM, lee wrote:

>
>
> --- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
>
> >
> > If anyone is wondering if a BNC fits instead of the RCA plug, it does
>
> What type BNC jack did you use? I assume you had to drill the hole out, correct?
>
> 73 de Lee, AA4GA

10853. Re: [AT_Sprint] Re: MTR S/N 155 is on the air!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-02 11:07:19 UTC
From: Philip Townsend Lontz
Topic: 10810 Message: 10853

There are 50 ohm BNC's and 75 ohm BNC's. make sure you have the 50's. probably don't matter that much... Just sayin...

"Respect my authority" Cartman
Member of no Clubs and affiliated with one one.

On Apr 2, 2013, at 4:42, lee <lee.hiers@...> wrote:

>
>
> --- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
>
> >
> > If anyone is wondering if a BNC fits instead of the RCA plug, it does
>
> What type BNC jack did you use? I assume you had to drill the hole out, correct?
>
> 73 de Lee, AA4GA
>
>

10854. New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-02 23:51:44 UTC
From: AT_Sprint@yahoogroups.com
Topic: 154 Message: 10854

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the AT_Sprint
group.

File : /MTR /MTR_2.pdf
Uploaded by : kd1jv <steve.kd1jv@...>
Description : Updated 4/2/13

You can access this file at the URL:
http://groups.yahoo.com/group/AT_Sprint/files/MTR%20/MTR_2.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

kd1jv <steve.kd1jv@...>

10855. Updated MTR_2 manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-02 23:53:58 UTC
From: Steven
Topic: 10855 Message: 10855

```
Updates:
Added missing R45 location and value to resistor placement page.
Corrected color code for 150 pfd chip caps (BRN/GRN/BRN)
Corrected duplicate capacitor designation in LPF componet value chart.
```

10856. Re: Updated MTR_2 manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 00:13:21 UTC
From: Keith Hamilton
Topic: 10855 Message: 10856

Great! Thank you Steve!
Anything to avoid confusion helps!

73. Keith N8CEP

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Updates:
> Added missing R45 location and value to resistor placement page.
> Corrected color code for 150 pfd chip caps (BRN/GRN/BRN)
> Corrected duplicate capacitor designation in LPF componet value chart.
>

10857. Local oscillator freq./bfo adj. help needed

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 06:42:29 UTC
From: Tim Goodrich
Topic: 10857 Message: 10857

Hi Steve and all,

Finishing up my 1st run MTR here and making some adjustments, but ran into a potential problem. I'm at the step "local oscillator frequency trim and BFO adjustment". Using an o-scope connected to TP2, I get 2.5vdc with a very small audio AC component (20mv). Should the DC signal change as the frequency sweeps through the passband or is it the AC component that should change? Neither appears to change on my sweep test, even when changing the tone by a factor of 1.5khz (far outside the 500hz filter bandwidth). I do hear a low volume audio tone in the headphones that changes in frequency and all my voltages checked out as good on the audio chain ICs.

Also, is the 20mv AC signal I'm seeing typical or is it low?

Thank you,

Tim

K6TW

10858. Fixed it! (MTR C75 & C76).

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 05:56:02 UTC
From: Gil G.
Topic: 10858 Message: 10858
Attachments: 1 described; binary payloads are missing from this source WARC

First, thank you to all who made troubleshooting suggestions, and to Steve for correcting the manual. It turns out that I had inverted C75 and C76. On the chart, if you follow the "logical" order, you end-up reversing the caps (both C75 & C76 are labeled C75 in the old manual). Now with 10V I get 3W out on 20m and 4W on 40m. I have not tried 12V yet. So, one Watt less on 20m. Normal? I'm not going to sweat it..

Gil.
--
PGP Key: http://keskydee.com/gil.asc

10859. Re: [AT_Sprint] Updated MTR_2 manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 05:04:05 UTC
From: Gil G.
Topic: 10855 Message: 10859

Ha! Thank you Sir. I think that might be why I have low power on 40m and a bit less on 20. I inverted C76/C75! It seemed logical to use C76=150 on the old manual…
Hopefully that will solve my problem. I suspect I wouldn't have been the last builder to do this..

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Apr 2, 2013, at 8:13 PM, Keith Hamilton wrote:
> Great! Thank you Steve!
> Anything to avoid confusion helps!
>
> 73. Keith N8CEP
>
> --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
> >
> > Updates:
> > Added missing R45 location and value to resistor placement page.
> > Corrected color code for 150 pfd chip caps (BRN/GRN/BRN)
> > Corrected duplicate capacitor designation in LPF componet value chart.
> >

10860. Re: New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 13:49:56 UTC
From: PHILIP GRAITCER
Topic: 1459 Message: 10860

Steve,

Would you consider putting the date you released the manual on the cover page on in the file name. I find keeping track of the current manual is harder than putting the SMT piece on the board!

Thanks for a great kit. Can hardly wait to sit down and build it.

Phil

10861. Re: MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 14:19:44 UTC
From: luke_308
Topic: 10174 Message: 10861

Oops - just last night I installed B1 as 40m and B2 as 20m. Guess I'll be switching those...

Luke
KD0FIN

10862. MTR SN/174

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 15:28:51 UTC
From: FS
Topic: 10862 Message: 10862

Hello group
MTR #174 is on the air. I completed a QSO in 20m band with WA9EIC.
I got 549 report with 2w out from a 9v battery.
Some numbers:
With PS :
9v
20M rx 0.034A tx 0.586A ::2w out
40M ::2,5w
12v
20M :: 3,4w
40M :: 4,6w

...maybe a little lower PO, will continue checking.
I really enjoyed building it. It is a great qrp rig, thanks Steve!.

73

Fred W2NNN

Frm my --.- .-. .--. .--. .... --- -. .

10863. Re: [AT_Sprint] Re: MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 16:17:39 UTC
From: Steven Weber
Topic: 10174 Message: 10863

> Oops - just last night I installed B1 as 40m and B2 as 20m. Guess I'll be
> switching those...
>
It probably really doesn't matter on this rig as the connections are pretty
short. Just so long as everything stays consistant, one way or the other.

Steve KD1JV

10864. Re: Local oscillator freq./bfo adj. help needed

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 17:02:33 UTC
From: Steven Weber
Topic: 10857 Message: 10864

You should see about 400 mv peak to peak. Since you can hear a tone a little bit which changes freq with the tuning, the DDS is apparently working. There is either a short or an open some where between the DDS filter and the product detector '612. Check for shorts to ground in the IF filter, soldering to the mixers, etc.

Steve KD1JV

Hi Steve and all,

Finishing up my 1st run MTR here and making some adjustments, but ran into a potential problem. I'm at the step "local oscillator frequency trim and BFO adjustment". Using an o-scope connected to TP2, I get 2.5vdc with a very small audio AC component (20mv). Should the DC signal change as the frequency sweeps through the passband or is it the AC component that should change? Neither appears to change on my sweep test, even when changing the tone by a factor of 1.5khz (far outside the 500hz filter bandwidth). I do hear a low volume audio tone in the headphones that changes in frequency and all my voltages checked out as good on the audio chain ICs.

Also, is the 20mv AC signal I'm seeing typical or is it low?

Thank you,

Tim

K6TW

10865. Re: Fixed it! (MTR C75 & C76).

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 18:01:28 UTC
From: Keith Hamilton
Topic: 10858 Message: 10865

Great job! Enjoy it!
Can't wait to build mine!

73. Keith N8CEP

--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
>
> First, thank you to all who made troubleshooting suggestions, and to Steve for correcting the manual. It turns out that I had inverted C75 and C76. On the chart, if you follow the "logical" order, you end-up reversing the caps (both C75 & C76 are labeled C75 in the old manual). Now with 10V I get 3W out on 20m and 4W on 40m. I have not tried 12V yet. So, one Watt less on 20m. Normal? I'm not going to sweat it..
>
> Gil.
> --
> PGP Key: http://keskydee.com/gil.asc
>

10866. Re: New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 18:06:04 UTC
From: Keith Hamilton
Topic: 1459 Message: 10866

The date is on the cover of the newest manual right under the title.

73 Keith N8CEP

--- In AT_Sprint@yahoogroups.com, PHILIP GRAITCER <pgraitc@...> wrote:
>
> Steve,
>
> Would you consider putting the date you released the manual on the cover page on in the file name. I find keeping track of the current manual is harder than putting the SMT piece on the board!
>
> Thanks for a great kit. Can hardly wait to sit down and build it.
>
> Phil
>

10867. Re: [AT_Sprint] Re: New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 18:08:47 UTC
From: Steven Weber
Topic: 1459 Message: 10867

I put the release date for updated manuals on the first page. You can also look at the date of the file.
Steve

>
> Would you consider putting the date you released the manual on the cover
> page on in the file name. I find keeping track of the current manual is
> harder than putting the SMT piece on the board!
>
> Thanks for a great kit. Can hardly wait to sit down and build it.
>
> Phil

10868. Re: [AT_Sprint] Re: Fixed it! (MTR C75 & C76).

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 19:06:43 UTC
From: Gil G.
Topic: 10858 Message: 10868

On Wed, 2013-04-03 at 18:01 +0000, Keith Hamilton wrote:
>
> Great job! Enjoy it!
> Can't wait to build mine!
> 73. Keith N8CEP

You'll love it Keith, just take your time building!
My first two QSOs with it were Estonia and Germany on 40m!
Amazing for the rig's size, and so much more than my Rock-Mites.
I was going to take my KX3 camping in a couple weeks, but will take the
MTR instead, much lighter..

Gil.

10869. Re: [AT_Sprint] Re: Fixed it! (MTR C75 & C76).

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 19:50:22 UTC
From: Colin Evans
Topic: 10858 Message: 10869

Glad you have got your MTR sorted Gil. Thanks for the beta testing :)

I'm patiently waiting over here in England for my MTR to arrive.

Just for interest, I weighed my original MTR s/n #131 a few evenings ago. My complete MTR rig weighs 2.8oz. I run my MTR at about 2.5w using a 1000mAh 2S LiPo. My LiPo weighs 2oz (fully charged :)), so thats 4.8oz for rig and battery.

What's amazing is the fact that not only is the rig superlight, it is also a fantastic performer. I love the RX, it makes very easy listening. I had my FT817 out a couple of days ago, I found the RX was not as easy to listen to as the MTR, it just seems to have far more mush in the background - probably introduced by the FT817 audio amplifiers. I have the Yaesu branded 300Hz filter fitted in my FT817, it's pretty useless without, especially on 40m.

I much prefer the MTR, I think the FT817 will be relegated back to 'test instrument' status when I get an MTR for 30m up and running.

72,
Colin M0CGH

On 3 April 2013 20:06, Gil G. <gil@...> wrote:

> **
>
>
> On Wed, 2013-04-03 at 18:01 +0000, Keith Hamilton wrote:
> >
> > Great job! Enjoy it!
> > Can't wait to build mine!
> > 73. Keith N8CEP
>
> You'll love it Keith, just take your time building!
> My first two QSOs with it were Estonia and Germany on 40m!
> Amazing for the rig's size, and so much more than my Rock-Mites.
> I was going to take my KX3 camping in a couple weeks, but will take the
> MTR instead, much lighter..
>
> Gil.
>
>
>

10870. Re: [AT_Sprint] Re: Fixed it! (MTR C75 & C76).

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 20:28:32 UTC
From: Gil G.
Topic: 10858 Message: 10870

On Wed, 2013-04-03 at 20:50 +0100, Colin Evans wrote:
> I love the RX, it makes very easy listening. I had my FT817 out a
> couple of days ago, I found the RX was not as easy to listen to as the
> MTR, it just seems to have far more mush in the background

Interesting Colin... The RX on mine is great, but the noise level seems
a bit high.. Any suggestion as to what could cause that..?
I might be a bit spoiled by being used to the KX3 though..

Gil.

10871. 2nd run MTR firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 20:51:54 UTC
From: zigmundrat
Topic: 10871 Message: 10871

I haven't seen it mentioned (or maybe I just missed it - but I searched..) but I presume the 2nd run MTR firmware is identical to the 1st run? If not, I'd like to know the differences. Thanks!

10872. The RCA (phono) antenna to BNC dilemma

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 22:28:36 UTC
From: Zachary L
Topic: 10872 Message: 10872

Ok... I am sure some of you have been down this road.

I did it the hard way. I did not want to drill a bigger hole in my ATS-4 or my new MTR case. So I went with the Phono jack and made a pig tail (maie phone to female BNC). It worked fine.. ugly but no problems at all.

Now I am in the process of building up my MTR and was going to make another pig tail. On a whim I stopped by Radio Shack and was asking the guy where the parts I needed were... and he held up a RCA (phone) male to BNC female adaptor and asked, "will this work?" Eureka!!! I never even bothered to do a search to see of they made such a critter. (<7$)

So if anyone besides me wonders if they do... YES they do. It plugs right in and looks very nice as well as provides a solid connection.

73's

10873. Re: The RCA (phono) antenna to BNC dilemma

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 22:59:09 UTC
From: n1rx
Topic: 10872 Message: 10873

Yup, been around a long time. Think I bought 10 for $8 on ebay a few yeas ago... From china (of course), about 7 were actually useable.

--- In AT_Sprint@yahoogroups.com, "Zachary L" <zakair@...> wrote:
>
> Ok... I am sure some of you have been down this road.
>
> I did it the hard way. I did not want to drill a bigger hole in my ATS-4 or my new MTR case. So I went with the Phono jack and made a pig tail (maie phone to female BNC). It worked fine.. ugly but no problems at all.
>
> Now I am in the process of building up my MTR and was going to make another pig tail. On a whim I stopped by Radio Shack and was asking the guy where the parts I needed were... and he held up a RCA (phone) male to BNC female adaptor and asked, "will this work?" Eureka!!! I never even bothered to do a search to see of they made such a critter. (<7$)
>
> So if anyone besides me wonders if they do... YES they do. It plugs right in and looks very nice as well as provides a solid connection.
>
> 73's
>

10874. RE: [AT_Sprint] The RCA (phono) antenna to BNC dilemma

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-03 23:58:59 UTC
From: Mike Olbrisch
Topic: 10872 Message: 10874

For me - that is just one more adapter to lose and prevent me from operating after a 3 hour hike and a 3000 foot climb. Or worse, have it fall between the cracks of a few big rocks, just out of reach.

I put in a BNC on my radio, so it matches everything else I have, then no problems forgetting anything. Well - at least not that.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Zachary L
Sent: Wednesday, April 03, 2013 16:29
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] The RCA (phono) antenna to BNC dilemma

Ok... I am sure some of you have been down this road.

I did it the hard way. I did not want to drill a bigger hole in my ATS-4 or my new MTR case. So I went with the Phono jack and made a pig tail (maie phone to female BNC). It worked fine.. ugly but no problems at all.

Now I am in the process of building up my MTR and was going to make another pig tail. On a whim I stopped by Radio Shack and was asking the guy where the parts I needed were... and he held up a RCA (phone) male to BNC female adaptor and asked, "will this work?" Eureka!!! I never even bothered to do a search to see of they made such a critter. (<7$)

So if anyone besides me wonders if they do... YES they do. It plugs right in and looks very nice as well as provides a solid connection.

73's

Yahoo! Groups Links

10875. Re: The RCA (phono) antenna to BNC dilemma

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 00:04:54 UTC
From: omehegan
Topic: 10872 Message: 10875

I hope to start on my ATS-4a kit that I bought ages ago, soon. I checked Digi-Key, and they have an RCA to BNC adapter for $1.99. Part number is 367-1012-ND. But I'm interested in just putting a BNC on my kit. I have a step drill bit so I can widen the hole easily. Can you recommend a specific part for the jack you used? Or will any old chassis BNC fit?

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> For me - that is just one more adapter to lose and prevent me from operating
> after a 3 hour hike and a 3000 foot climb. Or worse, have it fall between
> the cracks of a few big rocks, just out of reach.
>
> I put in a BNC on my radio, so it matches everything else I have, then no
> problems forgetting anything. Well - at least not that.
>
> Vy73 - Mike - KD9KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/

10876. RE: [AT_Sprint] Re: The RCA (phono) antenna to BNC dilemma

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 00:18:57 UTC
From: Mike Olbrisch
Topic: 10872 Message: 10876

The BNC connector came from Dale Putnam. I do not know the part number or manufacturer.

Sorry.

Dale?????

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of omehegan
Sent: Wednesday, April 03, 2013 18:05
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: The RCA (phono) antenna to BNC dilemma

I hope to start on my ATS-4a kit that I bought ages ago, soon. I checked Digi-Key, and they have an RCA to BNC adapter for $1.99. Part number is 367-1012-ND. But I'm interested in just putting a BNC on my kit. I have a step drill bit so I can widen the hole easily. Can you recommend a specific part for the jack you used? Or will any old chassis BNC fit?

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> For me - that is just one more adapter to lose and prevent me from operating
> after a 3 hour hike and a 3000 foot climb. Or worse, have it fall between
> the cracks of a few big rocks, just out of reach.
>
> I put in a BNC on my radio, so it matches everything else I have, then no
> problems forgetting anything. Well - at least not that.
>
> Vy73 - Mike - KD9KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/

Yahoo! Groups Links

10877. MTR, saving keyer speed?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 01:54:24 UTC
From: Gil G.
Topic: 10877 Message: 10877
Attachments: 1 described; binary payloads are missing from this source WARC

Hello,

How do I save the current keyer speed without changing anything else?

Thanks!

Gil.
--
PGP Key: http://keskydee.com/gil.asc

10878. Re: [AT_Sprint] Re: The RCA (phono) antenna to BNC dilemma

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 03:26:18 UTC
From: Dale Putnam
Topic: 10872 Message: 10878

I have a few, they fit into a slightly larger hole, with very nearly the same space needed as the bnc needs. Can ship priority for 18.00. Flush mount - on the inside!
Have a great day,
Dale - WC7S

-----Original Message-----
From: Mike Olbrisch <mike-2007@...>
Date: Thu, 4 Apr 2013 00:18:57
To: <AT_Sprint@yahoogroups.com>
Subject: RE: [AT_Sprint] Re: The RCA (phono) antenna to BNC dilemma

The BNC connector came from Dale Putnam. I do not know the part number or manufacturer.

Sorry.

Dale?????

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>
[mailto:AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>] On Behalf Of omehegan
Sent: Wednesday, April 03, 2013 18:05
To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>
Subject: [AT_Sprint] Re: The RCA (phono) antenna to BNC dilemma

I hope to start on my ATS-4a kit that I bought ages ago, soon. I checked Digi-Key, and they have an RCA to BNC adapter for $1.99. Part number is 367-1012-ND. But I'm interested in just putting a BNC on my kit. I have a step drill bit so I can widen the hole easily. Can you recommend a specific part for the jack you used? Or will any old chassis BNC fit?

--- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> , "Mike Olbrisch" <mike-2007@...> wrote:
>
> For me - that is just one more adapter to lose and prevent me from operating
> after a 3 hour hike and a 3000 foot climb. Or worse, have it fall between
> the cracks of a few big rocks, just out of reach.
>
> I put in a BNC on my radio, so it matches everything else I have, then no
> problems forgetting anything. Well - at least not that.

>
> Vy73 - Mike - KD9KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/

Yahoo! Groups Links

10879. Use the right manual: MTRmanual42012.pdf vs MTR_2.pdf

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 04:08:50 UTC
From: jgaffke
Topic: 10879 Message: 10879

Be sure to use the right manual, MTR_2.pdf is only for those units
shipped in 2013. Here's the changes I noticed in the schematics.
I doubt any of these would change the performance much:
DDS Filter: C22,C24,C32 values changed
Caps above BS170 FET's: C48,C69,C70 values changed
AGC: R45 added, C42 connection to U2 changed
Sidetone: R28 now 22k for louder sidetone (mine's plenty loud)
Transmit filters: All caps changed, L13 for 40 meters now 20 turns
The old schematics shows ADS9834 pins 3,4 tied to 5v, they are
actually tied to 3.3v exactly as shown in the new schematics.
And of course, the obligatory mod wire moved over a bit.
Jerry, KE7ER

10880. Re: [AT_Sprint] Re: The RCA (phono) antenna to BNC dilemma

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 04:59:17 UTC
From: Anthony Hardwick
Topic: 10872 Message: 10880

Dale,

How much would two of these connectors cost to be shipped to me? Do you have two that aren't spoken for, and that you could spare?

Thanks!

Anthony - W6GC
800 N Michigan Avenue
Pasadena, CA 91104

On Apr 3, 2013, at 8:26 PM, Dale Putnam <daleputnam@...> wrote:

> I have a few, they fit into a slightly larger hole, with very nearly the same space needed as the bnc needs. Can ship priority for 18.00. Flush mount - on the inside!
> Have a great day,
> Dale - WC7S
>
> -----Original Message-----
> From: Mike Olbrisch <mike-2007@...>
> Date: Thu, 4 Apr 2013 00:18:57
> To: <AT_Sprint@yahoogroups.com>
> Subject: RE: [AT_Sprint] Re: The RCA (phono) antenna to BNC dilemma
>
>
>
>
>
> The BNC connector came from Dale Putnam. I do not know the part number or
> manufacturer.
>
> Sorry.
>
> Dale?????
>
> Vy73 - Mike - KD9KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/
>
> -----Original Message-----
> From: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>
[mailto:AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>] On Behalf
> Of omehegan
> Sent: Wednesday, April 03, 2013 18:05
> To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>

> Subject: [AT_Sprint] Re: The RCA (phono) antenna to BNC dilemma
>
> I hope to start on my ATS-4a kit that I bought ages ago, soon. I checked
> Digi-Key, and they have an RCA to BNC adapter for $1.99. Part number is
> 367-1012-ND. But I'm interested in just putting a BNC on my kit. I have a
> step drill bit so I can widen the hole easily. Can you recommend a specific
> part for the jack you used? Or will any old chassis BNC fit?
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> , "Mike Olbrisch"
<mike-2007@...> wrote:
>>
>> For me - that is just one more adapter to lose and prevent me from
> operating
>> after a 3 hour hike and a 3000 foot climb. Or worse, have it fall between
>> the cracks of a few big rocks, just out of reach.
>>
>> I put in a BNC on my radio, so it matches everything else I have, then no
>> problems forgetting anything. Well - at least not that.
>>
>> Vy73 - Mike - KD9KC.
>> El Paso, Texas - DM61rt.
>> W5-SOTA Association Manager.
>> NA-SOTA info: http://na-sota.org/
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> Yahoo! Groups Links
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> Yahoo! Groups Links
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10881. Re: [AT_Sprint] The RCA (phono) antenna to BNC dilemma

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 07:25:06 UTC
From: Colin Tuckley
Topic: 10872 Message: 10881

Quoting Zachary L <zakair@...>:

> Ok... I am sure some of you have been down this road.
>
> I did it the hard way. I did not want to drill a bigger hole in my
> ATS-4 or my new MTR case. So I went with the Phono jack and made a
> pig tail (maie phone to female BNC). It worked fine.. ugly but no
> problems at all.

I've always been unhappy with using RCA/Phono jacks for RF. They are designed for audio after all. Are they 50 Ohm? We are trying to maintain an impedance match from the rig through to the antenna feeder. If the connection isn't close to 50 ohms then there will be an RF visible discontinuity with associated bad effects on the SWR.

Also, they lack positive latching, I'm always worried they will disconnect at a critical moment.

Colin G8TMV

10882. SN/292 arrived in Japan.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 13:33:14 UTC
From: jr1kda_ag6gt
Topic: 10882 Message: 10882

Here in Japan, today I received the MTR @ SN/292.
I will begin to start kit building.

10883. Re: The RCA (phono) antenna to BNC dilemma

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 14:43:31 UTC
From: jgaffke
Topic: 10872 Message: 10883

I doubt the discontinuity presented by a phono jack
has any measurable effect for a wavelength of 20 meters.
SMA's are good to 10 GHz+, but cost real money.

--- In AT_Sprint@yahoogroups.com, Colin Tuckley <colin@...> wrote:
>
> Quoting Zachary L <zakair@...>:
>
> > Ok... I am sure some of you have been down this road.
> >
> > I did it the hard way. I did not want to drill a bigger hole in my
> > ATS-4 or my new MTR case. So I went with the Phono jack and made a
> > pig tail (maie phone to female BNC). It worked fine.. ugly but no
> > problems at all.
>
> I've always been unhappy with using RCA/Phono jacks for RF. They are
> designed for audio after all. Are they 50 Ohm? We are trying to
> maintain an impedance match from the rig through to the antenna
> feeder. If the connection isn't close to 50 ohms then there will be an
> RF visible discontinuity with associated bad effects on the SWR.
>
> Also, they lack positive latching, I'm always worried they will
> disconnect at a critical moment.
>
> Colin G8TMV
>

10884. Re: [AT_Sprint] 2nd run MTR firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 15:11:30 UTC
From: Steven Weber
Topic: 10871 Message: 10884

>I haven't seen it mentioned (or maybe I just missed it - but I searched..)
>but I presume the 2nd run MTR firmware is identical to the 1st run? If not,
>I'd like to know the differences. Thanks!
>

There are no changes to the firmware. I was thinking about deleting a few things like the Pocketdigi routines, but decided I had best leave well enough alone.

Steve KD1JV

10885. Re: [AT_Sprint] MTR, saving keyer speed?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 15:20:06 UTC
From: Steven Weber
Topic: 10877 Message: 10885

You can't. Saving the current keyer speed also saves all the setting in RAM, like the current operating frequency for each band.

Steve

How do I save the current keyer speed without changing anything else?

10886. Re: [AT_Sprint] The RCA (phono) antenna to BNC dilemma

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 18:30:42 UTC
From: mstangelo@...
Topic: 10872 Message: 10886

I've used SMB connectors with my ATS kits. They are a small robust push-on coax connector.

I was able to get some surplus male connectors that I soldered on the board. I also found RG-174 cable assemblies with SMB female connectors. The outer diameter of the cable connector boot was 1/4 inch so I drilled a 5/16 inch hole in the side of my Altoids box to access the male connector. I installed a BNC connector on the other end of the coax.

I got these surplus at a hamfest years ago. New connectors are not cheap but you can find bargains on Ebay. The SMB cnnectors are commonly used for GPS antenna installations.

Mike N2MS

----- Original Message -----
From: Colin Tuckley <colin@...>
To: AT Sprint <AT_Sprint@yahoogroups.com>
Sent: Thu, 04 Apr 2013 07:25:06 -0000 (UTC)
Subject: Re: [AT_Sprint] The RCA (phono) antenna to BNC dilemma

Quoting Zachary L <zakair@...>:

> Ok... I am sure some of you have been down this road.
>
<snip>

10887. Re: [AT_Sprint] MTR, saving keyer speed?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 19:13:40 UTC
From: Gil G.
Topic: 10877 Message: 10887

On Thu, 2013-04-04 at 11:20 -0400, Steven Weber wrote:
>
> You can't. Saving the current keyer speed also saves all the setting
> in RAM, like the current operating frequency for each band.
> Steve

> How do I save the current keyer speed without changing
> anything else?

Hello Sir,

That is fine.. The manual just wasn't very clear on the procedure.
When I select "P" with the menu button, I get "mfo","mdo" (if I remember
well, not home to test now). I click on Fn to save, but it doesn't seem
to let me. Sorry, again, not home to test..

So, here is my question rephrased: From normal operation, what are the
steps required to save the transceiver state?

Thank you.

Gil.

10888. Definitions side comment....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-04 22:47:48 UTC
From: Gilbert Gibbs
Topic: 10872 Message: 10888

All "new" OMs,

When I was growing up and learning terms, all the radio jocks at the time referred to "male" connectors as "plugs", and "female" connectors as "sockets". Now, it's all gone to the computer vernacular, and I'm really curious, does anyone recall the "plug and socket" days?

Good to know that such tiny connectors are available, I'm hesitant to use BNC on my kits!

73's, grin a lot,

Gil WA5YKK

>
> I was able to get some surplus male connectors that I soldered on the board. I also found RG-174 cable assemblies with SMB female connectors.

10889. Re: [AT_Sprint] MTR, saving keyer speed?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-05 00:21:43 UTC
From: Steven Weber
Topic: 10877 Message: 10889

All you got to do is read the manual. Fn and RIT escape the mode. Tune up toggles between Morse ennunciation of freq on or off, Tune down button stores.

KD1JV

> That is fine.. The manual just wasn't very clear on the procedure.
> When I select "P" with the menu button, I get "mfo","mdo" (if I remember
> well, not home to test now). I click on Fn to save, but it doesn't seem
> to let me. Sorry, again, not home to test..
>
> So, here is my question rephrased: From normal operation, what are the
> steps required to save the transceiver state?

10890. Re: [AT_Sprint] MTR, saving keyer speed?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-05 13:40:04 UTC
From: XV4Y (Yan)
Topic: 10877 Message: 10890

This advice is not faire Stave.
Real ham don't read the manual.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 5 avr. 2013 à 07:21, Steven Weber a écrit :

> All you got to do is read the manual. Fn and RIT escape the mode. Tune up
> toggles between Morse ennunciation of freq on or off, Tune down button
> stores.
>
> KD1JV
>
>> That is fine.. The manual just wasn't very clear on the procedure.
>> When I select "P" with the menu button, I get "mfo","mdo" (if I remember
>> well, not home to test now). I click on Fn to save, but it doesn't seem
>> to let me. Sorry, again, not home to test..
>>
>> So, here is my question rephrased: From normal operation, what are the
>> steps required to save the transceiver state?
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

10891. MTR. CD?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-05 15:53:00 UTC
From: Jackie W. Russell
Topic: 10891 Message: 10891

In the MTR manual a CD with some files on it is mentioned. Did that get shipped with the kit?

Jackie Russell
AC4EH

Sent from Jackie's iPhone

10892. NAQCC Sprint Tuesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-05 16:44:32 UTC
From: NAQCC
Topic: 2905 Message: 10892

NAQCC Sprint Tuesday night!

Our April sprint is this coming Tuesday evening local time (April 09, EDT - 8:30-10:30PM, CDT - 7:30-9:30PM, MDT - 6:30-8:30PM, PDT - 5:30-7:30PM), which translates as Wednesday April 10, 0030 to 0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201304.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX for 1st, 2nd and 3rd place finishers (New!). A Certificate for top score in the GAIN antenna category.

Prizes: Too many to list!! - check out the prizes page on our website.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you've been hesitant to join in our sprints because you hear other sprints running at breakneck speeds, have no fear. Our sprints are geared to the newcomer to CW and/or contesting. Virtually everyone including the many veteran contesters who regularly enter our sprints will slow down to YOUR speed to help you make your contacts.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6610+ members in: All 50 States - 9 VE Provinces - 93 Countries. Sign up on the NAQCC website today (http://naqcc.info/) and receive a handsome certificate, with your membership number on it, which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

10893. Re: MTR. CD?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-05 16:54:40 UTC
From: Colin
Topic: 10891 Message: 10893

The MTR kit doesn't come with a cd.

The text referring to the cd is cut and pasted from an older manual.

Not sending out a cd with the kit is beneficial in two ways

1. It helps to cut costs, hence keeping down the cost of the kit

2. It's assumed that everyone has access to the internet and thus you can always have access to the most up to date manual.

73, Colin, M0CGH

--- In AT_Sprint@yahoogroups.com, "Jackie W. Russell" <jackier1061@...> wrote:
>
> In the MTR manual a CD with some files on it is mentioned. Did that get shipped with the kit?
>
> Jackie Russell
> AC4EH
>
> Sent from Jackie's iPhone
>

10894. Trade MTR for ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-05 18:59:51 UTC
From: philip_graitcer
Topic: 10894 Message: 10894

Hi,

I am fortunate enough to have an unbuilt MTR, batch 2 kit. But I already have an MTR from the last run.

What I don't have is an ATS4.

Is any interested in trading my unbuilt MTR kit - or the built MTR which is in a great Apple Mouse case and built for 20/40 for an ATS4? I would prefer an unbuilt one.

We can adjust the money.

Phil, W3HZZ

10895. RE: [AT_Sprint] Trade MTR for ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-05 19:07:23 UTC
From: Dale Putnam
Topic: 10894 Message: 10895

If you don't get any replys Phil, get with me, I'd think we can figure something out. k?

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: pgraitc@...
Date: Fri, 5 Apr 2013 18:59:51 +0000
Subject: [AT_Sprint] Trade MTR for ATS4

Hi,

I am fortunate enough to have an unbuilt MTR, batch 2 kit. But I already have an MTR from the last run.

What I don't have is an ATS4.

Is any interested in trading my unbuilt MTR kit - or the built MTR which is in a great Apple Mouse case and built for 20/40 for an ATS4? I would prefer an unbuilt one.

We can adjust the money.

Phil, W3HZZ

10896. Re: Trade MTR for ATS4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 00:12:09 UTC
From: f_skinner
Topic: 10894 Message: 10896

Phil, if you want to sell your built 1st run MTR straight up I would be interested in it.

Frank
K0JQZ
f_skinner@...

--- In AT_Sprint@yahoogroups.com, "philip_graitcer" <pgraitc@...> wrote:
>
> Hi,
>
> I am fortunate enough to have an unbuilt MTR, batch 2 kit. But I already have an MTR from the last run.
>
> What I don't have is an ATS4.
>
> Is any interested in trading my unbuilt MTR kit - or the built MTR which is in a great Apple Mouse case and built for 20/40 for an ATS4? I would prefer an unbuilt one.
>
> We can adjust the money.
>
> Phil, W3HZZ
>

10897. MTR SMT Capacitor Confusion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 03:03:46 UTC
From: Rob Steenburgh
Topic: 10897 Message: 10897
Attachments: 2 described; binary payloads are missing from this source WARC

Before I start building the MTR, I sat down to inventory the parts and had no difficulty with the resistors, inductors and solid state components. However, I've struggled to inventory the SMT capacitors. I've been told I've got some color vision issues, so that may be a contributing factor.

I've attached two pictures. One picture shows both the caps I think I've been able to positively identify and the leftovers. The second picture shows the leftovers.

Can anyone help me assign values to the leftovers? There seem to be a bunch.

Thanks,
Rob
KA8JBY

10898. Re: [AT_Sprint] MTR SMT Capacitor Confusion [2 Attachments]

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 04:10:48 UTC
From: wmorrill@...
Topic: 10897 Message: 10898

Rob- The number of capacitors in a strip can sometimes be used as a clue to the color code. Label the strips that you can easily identify and this will help to evaluate the remaining strips.

A DIY capacitor/inductor tester has been very useful for measuring capacitance. However, some sort of holder needs to be fabricated to handle the small sm caps. My holder consists of small pieces of one-sided copper clad board that are glued to the tips of a small spring clamp. Wires are soldered to each board, and are used for test leads. Maybe you can come up with a better method. Measurement usually must be made before components are mounted on the board.

There will be a few unused band-specific components left over. However, Steve has been very accurate in providing the correct number of components.

You might consider some method of marking capacitors as you remove them from the paper strips.

Hope this helps a little.

Wendell
N7WM

> Before I start building the MTR, I sat down to inventory the parts and had
> no difficulty with the resistors, inductors and solid state components.?
> However, I've struggled to inventory the SMT capacitors.? I've been told
> I've got some color vision issues, so that may be a contributing factor.
>
> I've attached two pictures.? One picture shows both the caps I think I've
> been able to positively identify and the leftovers.? The second picture
> shows the leftovers.
>
> Can anyone help me assign values to the leftovers?? There seem to be a
> bunch.
>
>
> Thanks,
> Rob
> KA8JBY
>

10899. Connector Nirvana with the ATS3A

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 05:19:09 UTC
From: jgaffke
Topic: 10899 Message: 10899

I have an ATS3A and an MTR. With the MTR, the connectors were pushed off the board to make room for two bands worth of switches and filters. Two bands on the main board is nice, but I must say I really liked the connector arrangement of the ATS3A. Especially once I hacked in a CUI PJ-032H-SMT-TR power connector (mates to CUI PP-012) to serve for the antenna as shown in folder KE7ER in the photos section. I soldered the connector down on the opposite side of the board where I found some unused copper. With all connectors on one edge of the board and no wires to break and no connectors to unbolt from the panel, it's a cinch to work on the rig. The RF output stage has a DC blocking cap, so no problem if the power and antenna plugs go into the wrong jacks. Those worried about the impedance of antenna connectors will undoubtedly shudder when they see the photo, shows a 3" long twisted pair back to the filter section. Works great, though even I was looking for some small coax.

Also, the ATS3A had an earphone connector with the barrel open all the way through to the back. I found I could move a couple parts immediately behind the earphone jack to make room for a very small microswitch, such that power would be turned on when the earphones were plugged into the rig. Required the addition of a piece of plastic ballpoint pen barrel since the earphone plug was not quite long enough to reach the switch. Never did glue things in place since I didn't want batteries inside anyway, leaking all over my precious little rig.

Jerry, KE7ER

10900. Re: [AT_Sprint] MTR SMT Capacitor Confusion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 06:44:24 UTC
From: XV4Y (Yan)
Topic: 10897 Message: 10900

Hi,

I am color blind too even if not "100%" like my grandfather was.
I had no doubt in making the inventory for my MTR first run.
Using the numbers of items was easier than the color code.
I know several parts values have changed in the second run, but I think you can narrow things using the numbers as Wendell suggests.
Anyhow, you are right in the thing you have to take it easy and check things twice before starting to solder.

Enjoy building!

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 6 avr. 2013 à 11:10, wmorrill@... a écrit :

> Rob- The number of capacitors in a strip can sometimes be used as a clue
> to the color code. Label the strips that you can easily identify and this
> will help to evaluate the remaining strips.
>
> A DIY capacitor/inductor tester has been very useful for measuring
> capacitance. However, some sort of holder needs to be fabricated to
> handle the small sm caps. My holder consists of small pieces of one-sided
> copper clad board that are glued to the tips of a small spring clamp.
> Wires are soldered to each board, and are used for test leads. Maybe you
> can come up with a better method. Measurement usually must be made before
> components are mounted on the board.
>
> There will be a few unused band-specific components left over. However,
> Steve has been very accurate in providing the correct number of
> components.
>
> You might consider some method of marking capacitors as you remove them
> from the paper strips.
>
> Hope this helps a little.
>
> Wendell
> N7WM
>
> > Before I start building the MTR, I sat down to inventory the parts and had

> > no difficulty with the resistors, inductors and solid state components.
> > However, I've struggled to inventory the SMT capacitors. I've been told
> > I've got some color vision issues, so that may be a contributing factor.
> >
> > I've attached two pictures. One picture shows both the caps I think I've
> > been able to positively identify and the leftovers. The second picture
> > shows the leftovers.
> >
> > Can anyone help me assign values to the leftovers? There seem to be a
> > bunch.
> >
> >
> > Thanks,
> > Rob
> > KA8JBY
> >
>
>

10901. How do you describe your rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 13:27:37 UTC
From: William
Topic: 10901 Message: 10901

When I have a qso with a non KD1JV cult enthusiast I sometimes find
it difficult to describe my rig. MTR or ATS4 doesn't have the name
recognizion of a K2 or yaesu. I sometimes add "smd qrp rig kit
designed by KD1JV for ultraportable use" but was wondering how others have described it.
Bill, WV1N

10902. Re: Connector Nirvana with the ATS3A

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 15:17:34 UTC
From: cloud runner
Topic: 10899 Message: 10902

A few comments on the jacks of the ATS3-B specifically (since not sure they were the same through the ATS3's)...

Several friends of mine and I have used these radios for SOTA activations. While mine have not suffered a failure, in fact, a jack failure has proven common. What seems to fail is not so much the jack, but that the jacks are soldered to traces on the board, and the thing is only as sturdy as the weakest link. ALL of my friends have had a jack fail, either a power jack or the phones jack or the paddle jack with the traces pealing off the board.

i MUCH prefer these jacks off the board. never had a failure of the jacks off the board, and if there was a failure, it wouldn't damage the board.

Those things said, the on/off you refer to is very clever. I mount my battery inside the case with my MTR. I don't leav it there, just travels there. I would like to figure out an on/off switch, rather than opening the case and plug in the JST, but it needs to be something that can not possible turn itself on in the backpack during the carry.

73, fred - kt5x

aka WS0TA

10903. Re: [AT_Sprint] How do you describe your rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 16:00:26 UTC
From: Gil G.
Topic: 10901 Message: 10903

Hello,

I just say "Weber MTR," if they are curious, they can Google it...

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Apr 6, 2013, at 9:27 AM, William wrote:

> When I have a qso with a non KD1JV cult enthusiast I sometimes find
> it difficult to describe my rig. MTR or ATS4 doesn't have the name
> recognizion of a K2 or yaesu. I sometimes add "smd qrp rig kit
> designed by KD1JV for ultraportable use" but was wondering how others have described it.
> Bill, WV1N

10904. Re: [AT_Sprint] MTR. CD?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 16:34:41 UTC
From: Steven Weber
Topic: 10891 Message: 10904

> In the MTR manual a CD with some files on it is mentioned. Did that get
> shipped with the kit?
>
No, those files are now in the group file section. The problem with re-using
old manuals so everything doesn't have to be rewritten is sometimes
references which don't apply don't get deleted.

Steve KD1JV

10905. Re: [AT_Sprint] How do you describe your rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 16:40:48 UTC
From: Steven Weber
Topic: 10901 Message: 10905

I just say rig here is QRP and leave it at that. Usually QRM or QSB suddenly and mysteriously starts as soon as you say that and the QSO ends anyway...

Steve KD1JV

I just say "Weber MTR," if they are curious, they can Google it...

10906. Re: [AT_Sprint] How do you describe your rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 17:42:37 UTC
From: Colin Evans
Topic: 10901 Message: 10906

> I just say rig here is QRP and leave it at that. Usually QRM or QSB suddenly and mysteriously starts as soon as you say that and the QSO ends anyway...
>
> Steve KD1JV

Surely it counts as home brew if you're the designer and constructor?

:-)

Colin, M0CGH

10907. First SMT attempt

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 19:05:12 UTC
From: Keith Hamilton
Topic: 10907 Message: 10907

Today was my very first attempt at SMT building - ever. I built the Hendricks SMT dummy load using the hot plate/heat gun technique. It went very well and the kit works FB.

My next project is the Hendricks SMK-2 transceiver. After completing these two kits feel I will be better prepared to construct my MTR SN238.

Big thanks to everyone here on the group for all the great comments and help. You have encouraged me to build my own MTR! I think I can be successful!

73 Keith N8CEP

10908. MTR diode D1 markings

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 20:50:27 UTC
From: Colin
Topic: 10908 Message: 10908

Hi All,

I just had a bit of a panic, but all turned out OK in the end.

I started building my MTR today, placing the semiconductors by hand. I fitted D1, the one in the 'yellow' marked carrier. In the manual it states that the markings for this device should be 'A7'. I was checking over my work and I noticed that the 'yellow' device that I had fitted for D1 was marked 'KJE' and Y5.

It turns out that 'KJE' is an alternative code for the same type of device, so all is good. 'Y5' would be the date code for time of manufacture.

The moral of the story -

Don't panic if your D1 doesn't say 'A7'!

72, Colin, M0CGH

10909. Re: Connector Nirvana with the ATS3A

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 21:25:25 UTC
From: jgaffke
Topic: 10899 Message: 10909

Fred,
Very good to know about breaking traces on surface mount connectors, perhaps a good argument for making room for through hole connectors. I haven't had a failure on my ATS3A yet, but that is how many of my portable broadcast radios have failed over the years.
I got an interesting reply to my previous post via email from Harry, OE6GC. In it he says: "Take one small P-Channel MOS FET like the IFR7205, connect source to the battery, drain to the rig, 100k between source and gate, 47k from gate to one headset pin. If you insert the headset this will route the battery to the ATS Rig."
The MTR already has a PFET in the power lead, rigged to act as a low dropout diode to protect against reverse polarity accidents from the battery. Unfortunately, that PFET is wired up in reverse of what is needed for our power-on trick since it has an internal diode from drain to source. If we switch the drain and source leads of Q6, tie the bottom of R24 to the headphone jack instead of ground, and add Harry's 100k resistor from source to gate, that should mostly work. Except it will take a few seconds for that 100k to charge up the 33uF cap at C3 enough to shut down the rig and we lose the diode protection originally provided by Q6. The source to gate zener D2 would help reduce that delay, and we could reduce the 100k to down as low as 10k if we are always running from a battery of 10 volts or more. We probably want some sort of indicator to show that the rig is on, perhaps by having the MSP430 occasionally flash an LED segment.
Jerry, KE7ER

10910. Re: [AT_Sprint] MTR diode D1 markings

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 21:38:37 UTC
From: Steven Weber
Topic: 10908 Message: 10910

```
>
> It turns out that 'KJE' is an alternative code for the same type of
> device, so all is good. 'Y5' would be the date code for time of
> manufacture.
>
```

I hate when they do that to me. I must have got a different manufacture this time. You just have to trust I put the correct color on the correct part :)

Steve

10911. Re: MTR SMT Capacitor Confusion

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-06 21:55:36 UTC
From: rasteenb
Topic: 10897 Message: 10911

Thanks Wendell and Yan.

I am an idiot.

As Jerry (KE7ER) noted in his post
<http://groups.yahoo.com/group/AT_Sprint/message/10879> , using the
correct manual is important. I had the right manual to begin with, but
when Steve posted an update
<http://groups.yahoo.com/group/AT_Sprint/message/10855> , I downloaded
it again so I'd have the most correct version. Only, I didn't download
the manual for the MTR-2
<http://f1.grp.yahoofs.com/v1/PJlgUTZBFlO3bljL9lmjZiqqtYOdmXoVgswh1sS5U0\
OJOqd86e2QYY-tkxArHopnL4-YFTZQt59j1bz8cUYfaGjmf-QD2Rc/MTR%20/MTR_2.pdf>
; I downloaded the manual for the original MTR.

I've been trying to reconcile the parts for the second MTR with the
parts list for the first MTR. [Note: that doesn't work well.]

Now with the correct parts list, everything matches up perfectly. Part
counts are spot-on. Go Steve!

It turns out I'm not as colorblind as I have been told, mostly by my
wife, but using a capacitance meter helped confirm my suspicions.

I still don't think mauve is a color. It sounds more like an emotional
state. "How are you feeling?" "Oh, lately I've been kinda mauve."
[I didn't win that argument, either.]

Back to work!
Rob KA8JBY

--- In AT_Sprint@yahoogroups.com, Rob Steenburgh <rasteenb@...> wrote:
>
> Before I start building the MTR, I sat down to inventory the parts and
had no difficulty with the resistors, inductors and solid state
components. However, I've struggled to inventory the SMT capacitors.
I've been told I've got some color vision issues, so that may be a
contributing factor.
>
> I've attached two pictures. One picture shows both the caps I think
I've been able to positively identify and the leftovers. The second
picture shows the leftovers.
>
> Can anyone help me assign values to the leftovers? There seem to be a
bunch.
>
>

> Thanks,
> Rob
> KA8JBY
>

10912. MTR 2 33 pF cap color marking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-07 00:10:18 UTC
From: scottg720
Topic: 10912 Message: 10912

The parts list on page 5 shows the 33 pF cap color as GRN/GRN/BLK but on page 9 it shows ORG/ORG/BLK. I initially thought I had an extra ORG/ORG/BRN (330 pF) but I now realize the correct color code is ORG/ORG/BLK (measures 33 pF).

I don't think this has been mentioned on the list so I thought I'd share. If it has, I apologize for the bandwidth.

73/72,
Scott, K1OA
(love my ATS-3B, can't wait to build my MTR!)

10913. Re: [AT_Sprint] MTR 2 33 pF cap color marking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-07 00:18:10 UTC
From: Frank Skinner
Topic: 10912 Message: 10913

Scott, thanks, I thought I had an extra as well.....

Frank
K0JQZ

Sent from my iPad

On Apr 6, 2013, at 6:10 PM, "scottg720" <k1oa@...> wrote:

> The parts list on page 5 shows the 33 pF cap color as GRN/GRN/BLK but
> on page 9 it shows ORG/ORG/BLK. I initially thought I had an extra
> ORG/ORG/BRN (330 pF) but I now realize the correct color code is
> ORG/ORG/BLK (measures 33 pF).
>
> I don't think this has been mentioned on the list so I thought I'd
> share. If it has, I apologize for the bandwidth.
>
> 73/72,
> Scott, K1OA
> (love my ATS-3B, can't wait to build my MTR!)
>
>

10914. Re: [AT_Sprint] MTR 2 33 pF cap color marking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-07 00:48:28 UTC
From: Keith Hamilton
Topic: 10912 Message: 10914

Thanks Scott! I will correct page 5 in my manual.

73. Keith N8CEP

On Apr 6, 2013, at 8:10 PM, "scottg720" <k1oa@...> wrote:

> The parts list on page 5 shows the 33 pF cap color as GRN/GRN/BLK but
> on page 9 it shows ORG/ORG/BLK. I initially thought I had an extra
> ORG/ORG/BRN (330 pF) but I now realize the correct color code is
> ORG/ORG/BLK (measures 33 pF).
>
> I don't think this has been mentioned on the list so I thought I'd
> share. If it has, I apologize for the bandwidth.
>
> 73/72,
> Scott, K1OA
> (love my ATS-3B, can't wait to build my MTR!)
>
>

10915. Re: [AT_Sprint] How do you describe your rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-07 02:09:37 UTC
From: Johnny Matlock
Topic: 10901 Message: 10915

Good point Steve!
Yes Qsb seems to get real bad with QRP!
If your working another qrp op they will listen and either already know, or go search it out!
72
Johnny AC0BQ

On Saturday, April 6, 2013, Colin Evans wrote:

> **
>
>
>
> > I just say rig here is QRP and leave it at that. Usually QRM or QSB
> suddenly and mysteriously starts as soon as you say that and the QSO ends
> anyway...
> >
> > Steve KD1JV
>
> Surely it counts as home brew if you're the designer and constructor?
>
> :-)
>
> Colin, M0CGH
>
>
>

10916. Re: How do you describe your rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-07 03:45:03 UTC
From: bevcomm
Topic: 10901 Message: 10916

I say rig hr is ATS-3B 5W Pic are on my QRZ page !

Arthur NS7E

10917. Hot plate question?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-07 16:03:56 UTC
From: Keith Hamilton
Topic: 10917 Message: 10917

I would like to ask a question regarding the hot plate used for the solder paste heat gun technique.

1. What temperature to you use to preheat the circuit board?
2. How long to you preheat it at the #1 temperature before using the heat gun?

Thanks fo any advise you could give!

73. Keith N8CEP

10918. ATS-4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-07 16:47:37 UTC
From: yuorx
Topic: 5244 Message: 10918

For Sale unopened unassembled ATS-4, asking $250,00 + PP.
Contact direct.

Milan

10919. Re: [AT_Sprint] MTR 2 33 pF cap color marking

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-07 16:56:40 UTC
From: Steven Weber
Topic: 10912 Message: 10919

How'd I mess that up? I really shouldn't stay up until 2 AM working on manuals!
Actually, I think we did pretty good this time.
Steve

> The parts list on page 5 shows the 33 pF cap color as GRN/GRN/BLK but
> on page 9 it shows ORG/ORG/BLK. I initially thought I had an extra
> ORG/ORG/BRN (330 pF) but I now realize the correct color code is
> ORG/ORG/BLK (measures 33 pF).

10920. Re: [AT_Sprint] ATS-4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-08 18:30:52 UTC
From: Milan Rajacic
Topic: 5244 Message: 10920

ATS-4 sold

Milan

2013/4/7 yuorx <rajacicmilan@...>

> **
>
>
> For Sale unopened unassembled ATS-4, asking $250,00 + PP.
> Contact direct.
>
> Milan
>
>
>

--
Mićko

10921. Re: ATS-4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-08 19:33:49 UTC
From: yuorx
Topic: 5244 Message: 10921

ATS-4 Sold

Milan

10922. MTR and Pile Up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-08 21:29:47 UTC
From: f4gha
Topic: 10922 Message: 10922

Hi All,

I'm waiting for my MTR N° 47 from the second Run. I hope to receive him very soon despite the fact that the FY postal services are catastrophic...

I plan to be active on /P and maybe on the IOTA SA-20 with my MTR and a Buddipole antenna. But also at the station for Fun. Bands will be 30 and 20m.

Could I have some feedbacks from those have used their MTR during a Pile Up ?
How the device behaves when many people calling you at the same time ? Is it possible to easily extract a Call or the receiver is submerged ?

I ask this question out of curiosity because future conditions are probably too small to make myself understood by many people and generate a big pile up. But you never know ! Hi

Thanks in advance.
Best 73 to all this great group.
Loïc, FY8PE.

10923. Wanted - Unbuilt ATS-4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-08 21:43:53 UTC
From: ab6wl
Topic: 10923 Message: 10923

Since I was too late for Milan's, does anyone else have an unbuilt ATS-4 that they would like to sell?

Thank you,

Earle
AB6WL

10924. MTR low out on 20m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-09 00:57:20 UTC
From: jonesr_99
Topic: 10924 Message: 10924

Just finished number 87, all went well until testing with a dummy load.
Receives well on both 40m and 20m, with 12volt supply it outputs 5 watt on 40 but only 2 watt on 20. In Tune mode I get 55v p to p at top of D4, on 20m the scope shows 59v p to p. Could this low out on 20 be something in the low pass filter? Wrong capacitor? I double checked the number of turns thru the toroids as well as wire spacing. Any tips would be appreciated.

Ron
W9RCJ

10925. Re: 2nd run MTR firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-09 11:09:37 UTC
From: Michael
Topic: 10871 Message: 10925

I am really looking forward to also make use of the PSK-capability via PocketDigi .. already digged out my Pocket PC again. So having this function removed would be a real loss from my view.

72 de Michael, DL3DCM ..

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
>
>
> >I haven't seen it mentioned (or maybe I just missed it - but I searched..)
> >but I presume the 2nd run MTR firmware is identical to the 1st run? If not,
> >I'd like to know the differences. Thanks!
> >
>
> There are no changes to the firmware. I was thinking about deleting a few
> things like the Pocketdigi routines, but decided I had best leave well
> enough alone.
>
> Steve KD1JV
>

10926. MTR 264 in ZL1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-07 05:04:18 UTC
From: reissumies70
Topic: 10926 Message: 10926

Hi all,

received my SN264 yesterday, spent 8 hours building & 2 hours troubleshooting my mistakes (while XYL had other plans for the night, oh well...).

First QSO with my brand new MTR was today with Gary, KF7WNS. Not bad - that is some 10000km or more (however, lost him in the middle of QSO, but reports got changed).

Got also PFR-3 here, I much prefer the RX of MTR in comparison to PFR3 which at least in my case is a bit too narrow/selective to my taste.

Getting now about 2W on both 40m and 20m bands at 12V point, so further adjustments and tuning will take place later - however, it's just couple of dB from the max, so personally I don't care much really as long as the precious power is not wasted in heating the enclosure.

Kit was a delight to build, one of the better ones I've done, I enjoyed it lots - and more enjoyment to follow now that I can operate it. (However, I changed the power and RF connectors to match with my other gear for compatibility)

Thanks lots Steve and cheers from New Zealand,
Riku, ZL1KLP

10927. Re: MTR 264 in ZL1

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-09 12:12:41 UTC
From: ian.kirkpatrick1@btinternet.com
Topic: 10926 Message: 10927

Many congratulations Riku. I am impressed! I am awaiting my MTR which will be first ever radio build. It will be a steep learning curve. Wishing you good dx with your new rig.
73's
Ian
G4WTF
Hereford
UK

--- In AT_Sprint@yahoogroups.com, "reissumies70" <rikluost@...> wrote:
>
> Hi all,
>
> received my SN264 yesterday, spent 8 hours building & 2 hours troubleshooting my mistakes (while XYL had other plans for the night, oh well...).
>
> First QSO with my brand new MTR was today with Gary, KF7WNS. Not bad - that is some 10000km or more (however, lost him in the middle of QSO, but reports got changed).
>
> Got also PFR-3 here, I much prefer the RX of MTR in comparison to PFR3 which at least in my case is a bit too narrow/selective to my taste.
>
> Getting now about 2W on both 40m and 20m bands at 12V point, so further adjustments and tuning will take place later - however, it's just couple of dB from the max, so personally I don't care much really as long as the precious power is not wasted in heating the enclosure.
>
> Kit was a delight to build, one of the better ones I've done, I enjoyed it lots - and more enjoyment to follow now that I can operate it. (However, I changed the power and RF connectors to match with my other gear for compatibility)
>
> Thanks lots Steve and cheers from New Zealand,
> Riku, ZL1KLP
>

10928. MTR at home

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-09 13:27:02 UTC
From: F5mpw
Topic: 10928 Message: 10928

my MTR kit arrived yesterday. Kit SN/272
Thank Steve.

Pour les temps futurs si des OM de langue française montent ce kit, quelques échanges en direct pourraient être sympa.

73 Philippe F5MPW

10929. Re: [AT_Sprint] MTR low out on 20m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-09 15:46:25 UTC
From: Gil G.
Topic: 10924 Message: 10929

Hello,

Mine outputs less on 20m as well. 4.5W on 40m with 11V and 3.2W on 20m…
2 and 5 though seems too big a difference..

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Apr 8, 2013, at 8:57 PM, jonesr_99 wrote:

> Just finished number 87, all went well until testing with a dummy load.
> Receives well on both 40m and 20m, with 12volt supply it outputs 5 watt on 40 but only 2 watt on 20. In Tune mode I get 55v p to p at top of D4, on 20m the scope shows 59v p to p. Could this low out on 20 be something in the low pass filter? Wrong capacitor? I double checked the number of turns thru the toroids as well as wire spacing. Any tips would be appreciated.
>
> Ron
> W9RCJ

10930. Re: [AT_Sprint] MTR and Pile Up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-09 16:30:09 UTC
From: Peter Martin
Topic: 10922 Message: 10930

Hi Loic,
I think you'll be pleasantly surprised at how good the receiver is in this little rig.
I'm sure you'll have bigger pileups than I'm likely to have, but at the start of a SOTA activation I may have 10 - 20 callers all calling at once.
The trick is to select RIT and listen above and below the frequency to pick them out. The receive bandwidth is actually very narrow with steep skirts and good rejection.
You can hear a bit of what I get if you listen to the videos here which have audio captured from the MTR.
http://youtu.be/VZ-yRXpg2dU (towards the end)
http://youtu.be/Ffje8VVcUKk

Regards
Pete
G4ISJ

On Mon, Apr 8, 2013 at 10:29 PM, f4gha <comax@...m> wrote:

> Hi All,
>
> I'm waiting for my MTR N° 47 from the second Run. I hope to receive him
> very soon despite the fact that the FY postal services are catastrophic...
>
> I plan to be active on /P and maybe on the IOTA SA-20 with my MTR and a
> Buddipole antenna. But also at the station for Fun. Bands will be 30 and
> 20m.
>
> Could I have some feedbacks from those have used their MTR during a Pile
> Up ?
> How the device behaves when many people calling you at the same time ? Is
> it possible to easily extract a Call or the receiver is submerged ?
>
> I ask this question out of curiosity because future conditions are
> probably too small to make myself understood by many people and generate a
> big pile up. But you never know ! Hi
>
> Thanks in advance.
> Best 73 to all this great group.
> Loïc, FY8PE.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links

>
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>
>

10931. Re: MTR and Pile Up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-09 16:53:51 UTC
From: f4gha
Topic: 10922 Message: 10931

Hi Peter,

On the video : SOTA - G/WB-009 Worcestershire Beacon by Bike
There is a beautiful Pile-Up, we could understand many call in same time, the receiver seems to be great in this conditions.

Have you an estimation of the bandwidth of the receiver ?

Tnx so much !
Loïc, FY8PE.

10932. MTR S/N 261 Isle of Wight

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-10 17:36:03 UTC
From: g0peb
Topic: 10932 Message: 10932

Mine has just arrived, s/n 261.
I hadn't fully realized just how neat this little rig looks.
The new case is robust and just fits in the palm of your hand.

73

Robert
G0PEB

10933. Wire suggestions?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-10 18:55:27 UTC
From: Gil WA5YKK
Topic: 10908 Message: 10933

Steve, et all,

Allow me to shift the focus of the group for one item that is confusing. I'm trying to find "genuine copper strand speaker wire", the type that Rad Shacque used to sell in bulk, now I look at Internet references and am aghast at the fact that we often by copper clad aluminum wire! It took half an hour to find a source of real and heavy copper wire, got a lot of projects to play with for my speakers, and copper clad won't do the job, my salt air component in my environment causes early failure, the copper goes bad, then the aluminum turns to dust. There is no fooling Mother Nature, that plain ole physical chemistry does the same thing now as it did when I first had problems with a soldered connection!
Anyone who knows of an outfit that handles the best wire, kindly reply to me directly, off the group listing.

Thanks for the bandwidth,

73's
Gil WA5YKK (Someday, I'll get all the ATS rigs going!)

10934. What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 07:39:02 UTC
From: f_skinner
Topic: 10934 Message: 10934

I completed my MTR, I built it for 20 and 30 meters or so I thought. I have low power output on both bands (around 1 watt) but what concerns me is instead of 30 meters it is transmitting on 40 meters and the band indicator for band 2 is a "4" so it does not go to or see 30 meters at all.

Is there something additional I need to do to get 30 meters? Since I wound everything for 30 and used the resistor and cap values for 30 meters I am thinking that would explain the low power output but I need it to be on 30 meters. (20 meters is set as BS1 (10K resistor) and 30 meters as BS2 (22K resistor)).

I just went through and checked all the values on the resistors for bnd b (I cannot check the caps) and re-counted the turns on L12 and L13. I am not sure what to do next.

Thanks for any help

Frank
K0JQZ

10935. Re: [AT_Sprint] What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 10:18:58 UTC
From: Lee Hiers
Topic: 10934 Message: 10935

Frank....

Sorry I'm on my phone right now and can't refer to the manual, but there is a "band select resistor" for each band that tells the CPU what band should be used. You may have a wrong part there, or possibly a bad solder connection.

HTH....73 de Lee, AA4GA
On Apr 11, 2013 3:39 AM, "f_skinner" <f_skinner@...> wrote:

> **
>
>
> I completed my MTR, I built it for 20 and 30 meters or so I thought. I
> have low power output on both bands (around 1 watt) but what concerns me is
> instead of 30 meters it is transmitting on 40 meters and the band indicator
> for band 2 is a "4" so it does not go to or see 30 meters at all.
>
> Is there something additional I need to do to get 30 meters? Since I wound
> everything for 30 and used the resistor and cap values for 30 meters I am
> thinking that would explain the low power output but I need it to be on 30
> meters. (20 meters is set as BS1 (10K resistor) and 30 meters as BS2 (22K
> resistor)).
>
> I just went through and checked all the values on the resistors for bnd b
> (I cannot check the caps) and re-counted the turns on L12 and L13. I am not
> sure what to do next.
>
> Thanks for any help
>
> Frank
> K0JQZ
>
>
>

10936. Re: [AT_Sprint] What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 11:35:00 UTC
From: Frank Skinner
Topic: 10934 Message: 10936

Lee, yes, that was my first thought but I checked them several times and ensured no bad connections.

(20 meters is set as BS1 (10K resistor 103) and 30 meters as BS2 (22K resistor 223)).

Frank

K0JQZ

From: Lee Hiers <lee.hiers@...>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, April 11, 2013 4:18 AM
Subject: Re: [AT_Sprint] What determines band?

Frank....
Sorry I'm on my phone right now and can't refer to the manual, but there is a "band select resistor" for each band that tells the CPU what band should be used. You may have a wrong part there, or possibly a bad solder connection.
HTH....73 de Lee, AA4GA
On Apr 11, 2013 3:39 AM, "f_skinner" <f_skinner@...> wrote:

>
>I completed my MTR, I built it for 20 and 30 meters or so I thought. I have low power output on both bands (around 1 watt) but what concerns me is instead of 30 meters it is transmitting on 40 meters and the band indicator for band 2 is a "4" so it does not go to or see 30 meters at all.
>
>Is there something additional I need to do to get 30 meters? Since I wound everything for 30 and used the resistor and cap values for 30 meters I am thinking that would explain the low power output but I need it to be on 30 meters. (20 meters is set as BS1 (10K resistor) and 30 meters as BS2 (22K resistor)).
>
>I just went through and checked all the values on the resistors for bnd b (I cannot check the caps) and re-counted the turns on L12 and L13. I am not sure what to do next.
>
>Thanks for any help
>
>Frank
>K0JQZ
>
>

10937. Re: [AT_Sprint] What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 11:50:20 UTC
From: Colin Tuckley
Topic: 10934 Message: 10937

Quoting Frank Skinner <f_skinner@...>:

> Lee, yes, that was my first thought but I checked them several times
> and ensured no bad connections.
>
> (20 meters is set as BS1 (10K resistor 103) and 30 meters as BS2
> (22K resistor 223)).

Does the voltage on Pin 20 of U10 (the microprocessor) change when you switch the band switches? The resistor circuit goes go via S5b.

Are S5, C67 and R41 all soldered correctly without any shorts or opens?

Colin G8TMV

10938. Re: [AT_Sprint] What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 12:18:45 UTC
From: Frank Skinner
Topic: 10934 Message: 10938

Does the voltage on Pin 20 of U10 (the microprocessor) change when you
switch the band switches? The resistor circuit goes go via S5b.

Yes it does change. The radio will switch to 40 from 20 and back. It has not had a problem
switching bands at all. Of course I built it for 20/30 meters.

Are S5, C67 and R41 all soldered correctly without any shorts or opens?

I just checked and re-solder them all, no effect.

Thanks for the suggestions Colin.

Frank

From: Colin Tuckley <colin@...>
To: AT_Sprint@yahoogroups.com; Frank Skinner <f_skinner@...>
Cc: "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
Sent: Thursday, April 11, 2013 5:50 AM
Subject: Re: [AT_Sprint] What determines band?

Quoting Frank Skinner <f_skinner@...>:

> Lee, yes, that was my first thought but I checked them several times
> and ensured no bad connections.
>
> (20 meters is set as BS1 (10K resistor 103) and 30 meters as BS2
> (22K resistor 223)).

Does the voltage on Pin 20 of U10 (the microprocessor) change when you
switch the band switches? The resistor circuit goes go via S5b.

Are S5, C67 and R41 all soldered correctly without any shorts or opens?

Colin G8TMV

10939. Re: [AT_Sprint] What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 12:53:49 UTC
From: Colin Tuckley
Topic: 10934 Message: 10939

Quoting Frank Skinner <f_skinner@...>:

> Are S5, C67 and R41 all soldered correctly without any shorts or opens?
>
> I just checked and re-solder them all, no effect.

Another thing to check, you mentioned that the output power was lower than expected. Well pin 19 on U10 (the micro-controller) is part of the Tx control circuit. Please check that pin 19 and pin 20, which is the band select input, are not shorted to each other.

Colin G8TMV

10940. Re: What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 13:11:04 UTC
From: Colin
Topic: 10934 Message: 10940

I'm also building for 30m and 20m. I'm hoping to be ready for a smoke test this evening.

I'll have to see how my rig behaves and I'll report back.

GL es 72

Colin, M0CGH
#131 #267

--- In AT_Sprint@yahoogroups.com, Frank Skinner <f_skinner@...> wrote:
>
>
>
> Does the voltage on Pin 20 of U10 (the microprocessor) change when youÂ
> switch the band switches? The resistor circuit goes go via S5b.Â
>
> Yes it does change. The radio will switch to 40 from 20 and back. It has not had a
problem switching bands at all. Of course I built it for 20/30 meters.
>
> Are S5, C67 and R41 all soldered correctly without any shorts or opens?Â
>
> I just checked and re-solder them all, no effect.
>
>
> Thanks for the suggestions Colin.
>
> Frank
>
>
>
> _____
> From: Colin Tuckley <colin@...>
> To: AT_Sprint@yahoogroups.com; Frank Skinner <f_skinner@...>
> Cc: "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
> Sent: Thursday, April 11, 2013 5:50 AM
> Subject: Re: [AT_Sprint] What determines band?
>
>
>
> Â
> Quoting Frank Skinner <f_skinner@...>:
>
> > Lee, yes, that was my first thought but I checked them several times
> > and ensured no bad connections.Â
> >
> > (20 meters is set as BS1 (10K resistor 103) and 30 meters as BS2

> > (22K resistor 223)).
>
> Does the voltage on Pin 20 of U10 (the microprocessor) change when you
> switch the band switches? The resistor circuit goes go via S5b.
>
> Are S5, C67 and R41 all soldered correctly without any shorts or opens?
>
> Colin G8TMV
>

10941. Re: [AT_Sprint] What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 13:14:51 UTC
From: Frank Skinner
Topic: 10934 Message: 10941

Thanks Colin, I will check when I get home from work tonight. I appreciate your efforts helping me.

Good luck with your build.

72
Frank
K0JQZ

Sent from my iPhone

On Apr 11, 2013, at 6:53, Colin Tuckley <colin@...> wrote:

> Quoting Frank Skinner <f_skinner@...>:
>
> > Are S5, C67 and R41 all soldered correctly without any shorts or opens?
> >
> > I just checked and re-solder them all, no effect.
>
> Another thing to check, you mentioned that the output power was lower
> than expected. Well pin 19 on U10 (the micro-controller) is part of
> the Tx control circuit. Please check that pin 19 and pin 20, which is
> the band select input, are not shorted to each other.
>
> Colin G8TMV
>

10942. MTR ver2 layout errors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 14:23:23 UTC
From: paradoxpete.pdm@...
Topic: 10942 Message: 10942

I've just started installing the resistors on the bottom side.
The resistor layout shown in the latest manual is not correct around the area of Q4/Q5.
R26 and R27 are 2.2k and not in the positions shown (use screen printing to determine their position). Also D3 and R30 do not line up with the layout drawing. I'm assuming this layout is for the ver1 Board. The photos of the topside both show two different layouts too.
Apart form that all going well!

Pete
G4ISJ

10943. Re: [AT_Sprint] What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 15:35:36 UTC
From: wmorrill@...
Topic: 10934 Message: 10943

My MTR2 was built for 40/20 meters. It was all right on 20, but it would go to 80 meters rather than 40. Band selection is via R3 and R4, and obviously R4 at 47K wasn't doing the job. I replaced it with a 33K resistor, it correctly went to 40. Band switching resistors might be the source of problems for other rigs/bands.

The schematic on page 22 has an error. It shows the band switch resistors going to the wrong place on the following page. This connection should be to pin 20 of U2, as correctly shown on page 23.

Good luck

Wendell N7WM

> Thanks Colin, I will check when I get home from work tonight. I appreciate
> your efforts helping me.
>
> Good luck with your build.
>
> 72
> Frank
> K0JQZ
>
> Sent from my iPhone
>
> On Apr 11, 2013, at 6:53, Colin Tuckley <colin@...> wrote:
>
>> Quoting Frank Skinner <f_skinner@...>:
>>
>> > Are S5, C67 and R41 all soldered correctly without any shorts or
>> opens?
>> >
>> > I just checked and re-solder them all, no effect.
>>
>> Another thing to check, you mentioned that the output power was lower
>> than expected. Well pin 19 on U10 (the micro-controller) is part of
>> the Tx control circuit. Please check that pin 19 and pin 20, which is
>> the band select input, are not shorted to each other.
>>
>> Colin G8TMV
>>
>

10944. Re: [AT_Sprint] What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 16:00:42 UTC
From: VE4JWC - John
Topic: 10934 Message: 10944

I've been having a similar issue...My MTR2 is being built for 40/20 and seemed to switch fine, but after some un-related fiddling, it started giving me 80m . Flipping all the band switches back and forth half a dozen times seems to have fixed it, but I think I am going to pull my band switches out and test them.

(My unrelated fiddling is to do with plenty of power out on 20m and nada on 40m...I am thinking my bandswitch for the filter/antenna is not working correctly...)

John - VE4JWC

On 4/11/2013 10:35 AM, wmorrill@... wrote:
> My MTR2 was built for 40/20 meters. It was all right on 20, but it would
> go to 80 meters rather than 40. Band selection is via R3 and R4, and
> obviously R4 at 47K wasn't doing the job. I replaced it with a 33K
> resistor, it correctly went to 40. Band switching resistors might be the
> source of problems for other rigs/bands.
>
> The schematic on page 22 has an error. It shows the band switch resistors
> going to the wrong place on the following page. This connection should be
> to pin 20 of U2, as correctly shown on page 23.
>
> Good luck
>
> Wendell N7WM
>
>
>
>> Thanks Colin, I will check when I get home from work tonight. I appreciate
>> your efforts helping me.
>>
>> Good luck with your build.
>>
>> 72
>> Frank
>> K0JQZ
>>
>> Sent from my iPhone
>>
>> On Apr 11, 2013, at 6:53, Colin Tuckley <colin@...> wrote:
>>
>>> Quoting Frank Skinner <f_skinner@...>:
>>>
>>>> Are S5, C67 and R41 all soldered correctly without any shorts or
>>> opens?

>>>> I just checked and re-solder them all, no effect.
>>> Another thing to check, you mentioned that the output power was lower
>>> than expected. Well pin 19 on U10 (the micro-controller) is part of
>>> the Tx control circuit. Please check that pin 19 and pin 20, which is
>>> the band select input, are not shorted to each other.
>>>
>>> Colin G8TMV
>>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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10945. Re: [AT_Sprint] What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 16:55:28 UTC
From: Colin Tuckley
Topic: 10934 Message: 10945

On 11/04/13 16:35, wmorrill@... wrote:

> The schematic on page 22 has an error. It shows the band switch resistors
> going to the wrong place on the following page. This connection should be
> to pin 20 of U2, as correctly shown on page 23.

You mean pin 20 of *U10*

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

Some people act crazy, others aren't acting.

10946. Re: MTR ver2 layout errors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 17:08:34 UTC
From: Keith Hamilton
Topic: 10942 Message: 10946

Yes, I can see what you are talking about. The locations are clearly marked on the board, so I guess that is the correct version! Thank you so much for the heads up! Everyone working together is a big asset.

73 Keith N8CEP

--- In AT_Sprint@yahoogroups.com, paradoxpete.pdm@... wrote:
>
> I've just started installing the resistors on the bottom side.
> The resistor layout shown in the latest manual is not correct around the area of Q4/Q5.
> R26 and R27 are 2.2k and not in the positions shown (use screen printing to determine their position). Also D3 and R30 do not line up with the layout drawing. I'm assuming this layout is for the ver1 Board. The photos of the topside both show two different layouts too.
> Apart form that all going well!
>
> Pete
> G4ISJ
>

10947. Re: [AT_Sprint] What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 17:27:08 UTC
From: Peter Martin
Topic: 10934 Message: 10947

Frank,
When I modified my original MTR for 60 m I had a similar issue. It was originally a 40/20 rig and yet when I switched to 60 (in the old 40 position), it displayed 6 but still tuned to 7 MHz.
I eventually discovered that this was because the defaults for band 1 in memory were for 40 metres. I went into the settings menu and did a reset. It then picked up the new band settings which I then saved in the preferences. Is it possible that the processor has been programmed with defaults of 40/20 and needs resetting?

Pete
G4ISJ
On 11 Apr 2013 13:18, "Frank Skinner" <f_skinner@...> wrote:

>
>
>
> Does the voltage on Pin 20 of U10 (the microprocessor) change when you
> switch the band switches? The resistor circuit goes go via S5b.
>
> Yes it does change. The radio will switch to 40 from 20 and back. It has
> not had a problem switching bands at all. Of course I built it for 20/30
> meters.
>
> Are S5, C67 and R41 all soldered correctly without any shorts or opens?
>
> I just checked and re-solder them all, no effect.
>
> Thanks for the suggestions Colin.
>
> Frank
>
>
> ----------
> *From:* Colin Tuckley <colin@...>
> *To:* AT_Sprint@yahoogroups.com; Frank Skinner <f_skinner@...>
> *Cc:* "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
> *Sent:* Thursday, April 11, 2013 5:50 AM
> *Subject:* Re: [AT_Sprint] What determines band?
>
>
> Quoting Frank Skinner <f_skinner@...>:
>
> > Lee, yes, that was my first thought but I checked them several times
> > and ensured no bad connections.

> >
> > (20 meters is set as BS1 (10K resistor 103) and 30 meters as BS2
> > (22K resistor 223)).
>
> Does the voltage on Pin 20 of U10 (the microprocessor) change when you
> switch the band switches? The resistor circuit goes go via S5b.
>
> Are S5, C67 and R41 all soldered correctly without any shorts or opens?
>
> Colin G8TMV
>
>
>
>
>

10948. Re: What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 21:44:01 UTC
From: Colin
Topic: 10934 Message: 10948

Hi Frank,

It would appear that this is an issue with the kit, rather than a build problem.

I have just completed the 'smoke' test, happily the smoke didn't appear!

My 30m / 20m build is also showing operation on 40m and 20m.

Is this a firmware fault perhaps? I could maybe try some different values of band select resistor to see if I can trigger a '3' in place of my '4'.

Right now though I'm tired, I'm off to bed!

so you're not alone, my rig is exactly the same.

72, Colin, M0CGH
MTR #267

--- In AT_Sprint@yahoogroups.com, "f_skinner" <f_skinner@...> wrote:
>
> I completed my MTR, I built it for 20 and 30 meters or so I thought. I have low power output on both bands (around 1 watt) but what concerns me is instead of 30 meters it is transmitting on 40 meters and the band indicator for band 2 is a "4" so it does not go to or see 30 meters at all.
>
> Is there something additional I need to do to get 30 meters? Since I wound everything for 30 and used the resistor and cap values for 30 meters I am thinking that would explain the low power output but I need it to be on 30 meters. (20 meters is set as BS1 (10K resistor) and 30 meters as BS2 (22K resistor)).
>
> I just went through and checked all the values on the resistors for bnd b (I cannot check the caps) and re-counted the turns on L12 and L13. I am not sure what to do next.
>
> Thanks for any help
>
> Frank
> K0JQZ
>

10949. MTR Build - 612 chip Pin 1 Help?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 22:11:45 UTC
From: Etienne Scott
Topic: 10949 Message: 10949

I'm laying down parts on the bottom side of my MTR board.

Getting to the 612 chips - and I cannot see ANY pin 1 identification. No dot, no notch.

Any help here? Are there any other chips like this?

(And the 40Mhz osc has a pretty sad little dot not really in the corner.)

Etienne-K7ATN

10950. Re: MTR Build - 612 chip Pin 1 Help?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 22:21:22 UTC
From: Colin
Topic: 10949 Message: 10950

Etienne, Steve notes this particular chip in the build notes as it doesn't have a dot. You can use the makers logo for the dot 'nxp'.

One other way to tell is to look at the sides of the chip casing, one side will have a bevelled edge. The side with the bevelled edge has pin 1 on.

Hope this helps, I think Steve explains it better in the manaul!

72, Colin, M0CGH
--- In AT_Sprint@yahoogroups.com, "Etienne Scott" <climb2ski97215@...> wrote:
'
> I'm laying down parts on the bottom side of my MTR board.
>.
> Getting to the 612 chips - and I cannot see ANY pin 1 identification. No dot, no notch.
>
> Any help here? Are there any other chips like this?
>
> (And the 40Mhz osc has a pretty sad little dot not really in the corner.)
>
> Etienne-K7ATN
>

10951. Re: MTR Build - 612 chip Pin 1 Help?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 22:26:37 UTC
From: Etienne Scott
Topic: 10949 Message: 10951

Got it, thanks!

The bevel is very subtle. Need the loupe to see it, the hand lens isn't quite enough.

The bevel is addressed in general in the manual - I was looking for advice for the 612 in particular and there isn't any.

Onward!

--- In AT_Sprint@yahoogroups.com, "Colin" <m0cgh@...> wrote:
>
>
> Etienne, Steve notes this particular chip in the build notes as it doesn't have a dot. You can use the makers logo for the dot 'nxp'.
>
> One other way to tell is to look at the sides of the chip casing, one side will have a bevelled edge. The side with the bevelled edge has pin 1 on.
>
> Hope this helps, I think Steve explains it better in the manaul!
>
> 72, Colin, M0CGH
> --- In AT_Sprint@yahoogroups.com, "Etienne Scott" <climb2ski97215@> wrote:
> '
> > I'm laying down parts on the bottom side of my MTR board.
> >.
> > Getting to the 612 chips - and I cannot see ANY pin 1 identification. No dot, no notch.
> >
> > Any help here? Are there any other chips like this?
> >
> > (And the 40Mhz osc has a pretty sad little dot not really in the corner.)
> >
> > Etienne-K7ATN
> >
>

10952. Re: [AT_Sprint] Re: What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 22:31:40 UTC
From: Frank Skinner
Topic: 10934 Message: 10952

Hi Colin, well I do not know if I am happy about that or not. I sure am sorry your having the same issue. I have decided not to mess with it today as it has taken up too much of my time already and it stopped being fun late last night.

I learned how to "melt solder" which I had never done in the past so at least it accomplished that and it is a very cool process to watch. Since I wanted to use this radio for minimalist SOTA activations this summer I will wait until one comes up for sale (built and working) regardless of the band configuration.

I do appreciate everyones effort to help me troubleshoot.

72
Frank
K0JQZ

From: Colin <m0cgh@...>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, April 11, 2013 3:44 PM
Subject: [AT_Sprint] Re: What determines band?

Hi Frank,

It would appear that this is an issue with the kit, rather than a build problem.

I have just completed the 'smoke' test, happily the smoke didn't appear!

My 30m / 20m build is also showing operation on 40m and 20m.

Is this a firmware fault perhaps? I could maybe try some different values of band select resistor to see if I can trigger a '3' in place of my '4'.

Right now though I'm tired, I'm off to bed!

so you're not alone, my rig is exactly the same.

72, Colin, M0CGH
MTR #267

--- In AT_Sprint@yahoogroups.com, "f_skinner" <f_skinner@...> wrote:
>
> I completed my MTR, I built it for 20 and 30 meters or so I thought. I have low power output on both bands (around 1 watt) but what concerns me is instead of 30 meters it is transmitting on 40 meters and the band indicator for band 2 is a "4" so it does not go to or see 30 meters at all.
>
> Is there something additional I need to do to get 30 meters? Since I wound everything for 30 and used the resistor and cap values for 30 meters I am thinking that would explain the

low power output but I need it to be on 30 meters. (20 meters is set as BS1 (10K resistor) and 30 meters as BS2 (22K resistor)).
>
> I just went through and checked all the values on the resistors for bnd b (I cannot check the caps) and re-counted the turns on L12 and L13. I am not sure what to do next.
>
> Thanks for any help
>
> Frank
> K0JQZ
>

10953. Re: MTR Build - 612 chip Pin 1 Help?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 22:35:19 UTC
From: Colin
Topic: 10949 Message: 10953

Good, glad you're sorted!

I promise you that the manual does note the 612 in particular, I've just looked it up, it's on page 6 ' Semiconductor placement, second paragraph.

73, Colin

--- In AT_Sprint@yahoogroups.com, "Etienne Scott" <climb2ski97215@...> wrote:
>
> Got it, thanks!
>
> The bevel is very subtle. Need the loupe to see it, the hand lens isn't quite enough.
>
> The bevel is addressed in general in the manual - I was looking for advice for the 612 in particular and there isn't any.
>
> Onward!
>
> --- In AT_Sprint@yahoogroups.com, "Colin" <m0cgh@> wrote:
> >
> >
> > Etienne, Steve notes this particular chip in the build notes as it doesn't have a dot. You can use the makers logo for the dot 'nxp'.
> >
> > One other way to tell is to look at the sides of the chip casing, one side will have a bevelled edge. The side with the bevelled edge has pin 1 on.
> >
> > Hope this helps, I think Steve explains it better in the manaul!
> >
> > 72, Colin, M0CGH
> > --- In AT_Sprint@yahoogroups.com, "Etienne Scott" <climb2ski97215@> wrote:
> > '
> > > I'm laying down parts on the bottom side of my MTR board.
> > >.
> > > Getting to the 612 chips - and I cannot see ANY pin 1 identification. No dot, no notch.
> > >
> > > Any help here? Are there any other chips like this?
> > >
> > > (And the 40Mhz osc has a pretty sad little dot not really in the corner.)
> > >
> > > Etienne-K7ATN
> > >
> >
>

10954. Re: What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 22:46:32 UTC
From: Colin
Topic: 10934 Message: 10954

Don't give up Frank!

The MTR is a cool radio! My 40m/20m MTR is my favourite SOTA rig, I really love it, that's why I bought another!

It seems from your description that your build job is just fine.

A solution will appear and we'll soon be working DX on 30m. I've been using a RockMite on 30m up to now, sure it's fun working across the pond with 400mW, but it will be nice to just hear the replying station and not the entire band!

I think I'll have a rest day tomorrow I've been building the MTR in short sessions since Saturday.

73, Colin

--- In AT_Sprint@yahoogroups.com, Frank Skinner <f_skinner@...> wrote:
>
> Hi Colin, well I do not know if I am happy about that or not. I sure am sorry your having the same issue. I have decided not to mess with it today as it has taken up too much of my time already and it stopped being fun late last night.
>
> I learned how to "melt solder" which I had never done in the past so at least it accomplished that and it is a very cool process to watch. Since I wanted to use this radio for minimalist SOTA activations this summer I will wait until one comes up for sale (built and working) regardless of the band configuration.Â
>
> I do appreciate everyones effort to help me troubleshoot.Â
>
> 72
> Frank
> K0JQZ
>
>
>
>
> _____
> From: Colin <m0cgh@...>
> To: AT_Sprint@yahoogroups.com
> Sent: Thursday, April 11, 2013 3:44 PM
> Subject: [AT_Sprint] Re: What determines band?
>
>
>
> Â
> Hi Frank,

>
> It would appear that this is an issue with the kit, rather than a build problem.
>
> I have just completed the 'smoke' test, happily the smoke didn't appear!
>
> My 30m / 20m build is also showing operation on 40m and 20m.
>
> Is this a firmware fault perhaps? I could maybe try some different values of band select resistor to see if I can trigger a '3' in place of my '4'.
>
> Right now though I'm tired, I'm off to bed!
>
> so you're not alone, my rig is exactly the same.
>
> 72, Colin, M0CGH
> MTR #267
>
> --- In AT_Sprint@yahoogroups.com, "f_skinner" <f_skinner@> wrote:
> >
> > I completed my MTR, I built it for 20 and 30 meters or so I thought. I have low power output on both bands (around 1 watt) but what concerns me is instead of 30 meters it is transmitting on 40 meters and the band indicator for band 2 is a "4" so it does not go to or see 30 meters at all.
> >
> > Is there something additional I need to do to get 30 meters? Since I wound everything for 30 and used the resistor and cap values for 30 meters I am thinking that would explain the low power output but I need it to be on 30 meters. (20 meters is set as BS1 (10K resistor) and 30 meters as BS2 (22K resistor)).
> >
> > I just went through and checked all the values on the resistors for bnd b (I cannot check the caps) and re-counted the turns on L12 and L13. I am not sure what to do next.
> >
> > Thanks for any help
> >
> > Frank
> > K0JQZ
> >
>

10955. MTR build

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 23:55:00 UTC
From: Joseph Trombino, Jr
Topic: 10955 Message: 10955

I'm getting ready to start building my new MTR rig.

Believe starting out with the bottom of the circuit board is a good place to begin....I'll do the complete bottom and then finish up with the top of the board components.

I wonder if others have done the same thing or is this not a good way to go??

73, Joe W2KJ
I QRP, therefore I am

10956. Re: [AT_Sprint] MTR build

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 00:54:26 UTC
From: TJ Campie
Topic: 10955 Message: 10956

Just follow the instructions - works best I've found in the 3 I have built ;)

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Apr 11, 2013, at 6:55 PM, "Joseph Trombino, Jr" <jotrom@...> wrote:

> I'm getting ready to start building my new MTR rig.
>
> Believe starting out with the bottom of the circuit board is a good place to begin....I'll do the complete bottom and then finish up with the top of the board components.
>
> I wonder if others have done the same thing or is this not a good way to go??
>
> 73, Joe W2KJ
> I QRP, therefore I am
>
>

10957. Testing MTR on 14.062 now

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 01:12:14 UTC
From: TJ Campie
Topic: 10957 Message: 10957

Come be the first QSO

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

10958. Re: [AT_Sprint] Re: What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 08:38:44 UTC
From: Colin Tuckley
Topic: 10934 Message: 10958

Quoting Frank Skinner <f_skinner@...>:

> Hi Colin, well I do not know if I am happy about that or not. I sure
> am sorry your having the same issue. I have decided not to mess
> with it today as it has taken up too much of my time already and it
> stopped being fun late last night.

Someone mentioned fixing this on a 60m modded rig. It seems that if
the bands are not the "standard" pair then the rig miss-remembers the
initial frequencies.

The fix was:

1) Select the problem band.
2) Perform a power on reset per Page 21 of the manual
(Hold menu button down while powering up)
3) Save user preferences using the 'P' menu option and 'Tune Down'
(also on p21 of the manual)

I'd be interested to know if this procedure fixes the problem.

Also, Steve will probably respond soon, I had a reply from him on
another query yesterday saying he was travelling at the moment with
little Internet access so it may take him a while to catch up.

Colin G8TMV

10959. Re: [AT_Sprint] Re: What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 09:23:10 UTC
From: Peter Martin
Topic: 10934 Message: 10959

Colin,
That is exactly what I did with mine when I converted to 60m (and it still operated on 40)

If I remember, after delving into the code a little, it retrieves the settings on power up from the user preferences.
I seem to remember it sets a flag to always do so "if calibrated".
To force the flag to "not calibrated" you need to do the master reset described and then then when the band switches are scanned the new band values are loaded.

I'll let you know if it works for me as 30 is in my latest rig (maybe get to power up today!)

Pete
G4ISJ

On Thu, Apr 11, 2013 at 11:46 PM, Colin <m0cgh@...> wrote:

> Don't give up Frank!
>
> The MTR is a cool radio! My 40m/20m MTR is my favourite SOTA rig, I really
> love it, that's why I bought another!
>
> It seems from your description that your build job is just fine.
>
> A solution will appear and we'll soon be working DX on 30m. I've been
> using a RockMite on 30m up to now, sure it's fun working across the pond
> with 400mW, but it will be nice to just hear the replying station and not
> the entire band!
>
> I think I'll have a rest day tomorrow I've been building the MTR in short
> sessions since Saturday.
>
> 73, Colin
>
> --- In AT_Sprint@yahoogroups.com, Frank Skinner <f_skinner@...> wrote:
> >
> > Hi Colin, well I do not know if I am happy about that or not. I sure am
> sorry your having the same issue. I have decided not to mess with it today
> as it has taken up too much of my time already and it stopped being fun
> late last night.
> >
> > I learned how to "melt solder" which I had never done in the past so at
> least it accomplished that and it is a very cool process to watch. Since I
> wanted to use this radio for minimalist SOTA activations this summer I will

> wait until one comes up for sale (built and working) regardless of the band
> configuration.Â
> >
> > I do appreciate everyones effort to help me troubleshoot.Â
> >
> > 72
> > Frank
> > K0JQZ
> >
> >
> >
> >
> > _____
> > From: Colin <m0cgh@...>
> > To: AT_Sprint@yahoogroups.com
> > Sent: Thursday, April 11, 2013 3:44 PM
> > Subject: [AT_Sprint] Re: What determines band?
> >
> >
> >
> > Â
> > Hi Frank,
> >
> > It would appear that this is an issue with the kit, rather than a build
> problem.
> >
> > I have just completed the 'smoke' test, happily the smoke didn't appear!
> >
> > My 30m / 20m build is also showing operation on 40m and 20m.
> >
> > Is this a firmware fault perhaps? I could maybe try some different
> values of band select resistor to see if I can trigger a '3' in place of my
> '4'.
> >
> > Right now though I'm tired, I'm off to bed!
> >
> > so you're not alone, my rig is exactly the same.
> >
> > 72, Colin, M0CGH
> > MTR #267
> >
> > --- In AT_Sprint@yahoogroups.com, "f_skinner" <f_skinner@> wrote:
> > >
> > > I completed my MTR, I built it for 20 and 30 meters or so I thought. I
> have low power output on both bands (around 1 watt) but what concerns me is
> instead of 30 meters it is transmitting on 40 meters and the band indicator
> for band 2 is a "4" so it does not go to or see 30 meters at all.
> > >
> > > Is there something additional I need to do to get 30 meters? Since I
> wound everything for 30 and used the resistor and cap values for 30 meters

> I am thinking that would explain the low power output but I need it to be
> on 30 meters. (20 meters is set as BS1 (10K resistor) and 30 meters as BS2
> (22K resistor)).
> > >
> > > I just went through and checked all the values on the resistors for
> bnd b (I cannot check the caps) and re-counted the turns on L12 and L13. I
> am not sure what to do next.
> > >
> > > Thanks for any help
> > >
> > > Frank
> > > K0JQZ
> > >
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> Yahoo! Groups Links
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10960. Re: What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 10:01:10 UTC
From: Colin
Topic: 10934 Message: 10960

Thanks Pete,

I hope that fix works!

Today I've left my rig alone, I've started build on a 40/20 version.

Waiting for your results / waiting to try your fix tonight.

73, Colin

--- In AT_Sprint@yahoogroups.com, Peter Martin <paradoxpete.pdm@...> wrote:
>
> Colin,
> That is exactly what I did with mine when I converted to 60m (and it still
> operated on 40)
>
> If I remember, after delving into the code a little, it retrieves the
> settings on power up from the user preferences.
> I seem to remember it sets a flag to always do so "if calibrated".
> To force the flag to "not calibrated" you need to do the master reset
> described and then then when the band switches are scanned the new band
> values are loaded.
>
> I'll let you know if it works for me as 30 is in my latest rig (maybe get
> to power up today!)
>
> Pete
> G4ISJ
>
>
>
>
> On Thu, Apr 11, 2013 at 11:46 PM, Colin <m0cgh@...> wrote:
>
> > Don't give up Frank!
> >
> > The MTR is a cool radio! My 40m/20m MTR is my favourite SOTA rig, I really
> > love it, that's why I bought another!
> >
> > It seems from your description that your build job is just fine.
> >
> > A solution will appear and we'll soon be working DX on 30m. I've been
> > using a RockMite on 30m up to now, sure it's fun working across the pond
> > with 400mW, but it will be nice to just hear the replying station and not
> > the entire band!
> >

> > I think I'll have a rest day tomorrow I've been building the MTR in short
> > sessions since Saturday.
> >
> > 73, Colin
> >
> > --- In AT_Sprint@yahoogroups.com, Frank Skinner <f_skinner@> wrote:
> > >
> > > Hi Colin, well I do not know if I am happy about that or not. I sure am
> > sorry your having the same issue. I have decided not to mess with it today
> > as it has taken up too much of my time already and it stopped being fun
> > late last night.
> > >
> > > I learned how to "melt solder" which I had never done in the past so at
> > least it accomplished that and it is a very cool process to watch. Since I
> > wanted to use this radio for minimalist SOTA activations this summer I will
> > wait until one comes up for sale (built and working) regardless of the band
> > configuration.Â
> > >
> > > I do appreciate everyones effort to help me troubleshoot.Â
> > >
> > > 72
> > > Frank
> > > K0JQZ
> > >
> > >
> > >
> > >
> > > _____
> > > From: Colin <m0cgh@>
> > > To: AT_Sprint@yahoogroups.com
> > > Sent: Thursday, April 11, 2013 3:44 PM
> > > Subject: [AT_Sprint] Re: What determines band?
> > >
> > >
> > >
> > > Â
> > > Hi Frank,
> > >
> > > It would appear that this is an issue with the kit, rather than a build
> > problem.
> > >
> > > I have just completed the 'smoke' test, happily the smoke didn't appear!
> > >
> > > My 30m / 20m build is also showing operation on 40m and 20m.
> > >
> > > Is this a firmware fault perhaps? I could maybe try some different
> > values of band select resistor to see if I can trigger a '3' in place of my
> > '4'.
> > >
> > > Right now though I'm tired, I'm off to bed!

> > >
> > > so you're not alone, my rig is exactly the same.
> > >
> > > 72, Colin, M0CGH
> > > MTR #267
> > >
> > > --- In AT_Sprint@yahoogroups.com, "f_skinner" <f_skinner@> wrote:
> > > >
> > > > I completed my MTR, I built it for 20 and 30 meters or so I thought. I
> > have low power output on both bands (around 1 watt) but what concerns me is
> > instead of 30 meters it is transmitting on 40 meters and the band indicator
> > for band 2 is a "4" so it does not go to or see 30 meters at all.
> > > >
> > > > Is there something additional I need to do to get 30 meters? Since I
> > wound everything for 30 and used the resistor and cap values for 30 meters
> > I am thinking that would explain the low power output but I need it to be
> > on 30 meters. (20 meters is set as BS1 (10K resistor) and 30 meters as BS2
> > (22K resistor)).
> > > >
> > > > I just went through and checked all the values on the resistors for
> > bnd b (I cannot check the caps) and re-counted the turns on L12 and L13. I
> > am not sure what to do next.
> > > >
> > > > Thanks for any help
> > > >
> > > > Frank
> > > > K0JQZ
> > > >
> > >
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> > Yahoo! Groups Links
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10961. Re: MTR and Pile Up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-11 22:53:35 UTC
From: f4gha
Topic: 10922 Message: 10961

I know the bandwidth is 500hz, like it said in the manual.
But it seems the receiver performs extremely very well against QRM and QRN, because on the videos signals are pure and perfectly understandable. Like if a narrower filter is employed.

I am very excited to receive it !

10962. Re: MTR and Pile Up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 15:06:17 UTC
From: cloud runner
Topic: 10922 Message: 10962

Understand that I have 55 yrs of experience in CW ... I have been easily able to handle pile-ups with the MTR. Considering that it is a XCVR that weighs one and a half ounces, and draws 35 MA on rcv, its dynamic range is very good. We have been able to operate two of them on the same hill only 30 mtrs apart, and 3 khz apart (yes, can hear him, but not enough to be a bother).

signals sound separate if their fequencies are different, and often copy two or three calls at once.

73, Fred - kt5x

aka WS0TA

--

Hi All,

I'm waiting for my MTR N° 47 from the second Run. I hope to receive him very soon despite the fact that the FY postal services are catastrophic...

I plan to be active on /P and maybe on the IOTA SA-20 with my MTR and a Buddipole antenna. But also at the station for Fun. Bands will be 30 and 20m.

Could I have some feedbacks from those have used their MTR during a Pile Up ?
How the device behaves when many people calling you at the same time ? Is it possible to easily extract a Call or the receiver is submerged ?

I ask this question out of curiosity because future conditions are probably too small to make myself understood by many people and generate a big pile up. But you never know ! Hi

Thanks in advance.
Best 73 to all this great group.
Loïc, FY8PE.

10963. Re: [AT_Sprint] MTR low out on 20m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 15:08:58 UTC
From: cloud runner
Topic: 10924 Message: 10963

Am getting this a few days after you sent it so you may have it running well by now, but can say that unadjusted, this is not a surprising output to me. Play with scrunching or spreading toroid turns while monitoring that ouput. AFTEr adjustment I get 4 watts out at ten volts, and 5 watts out at 11 volts. Only 5.5 watts out at 12.5 volts, so I find that voltage higher than 11 not worth doing.

73 Fred - kt5x

----- Original Message -----
From: jonesr_99
To: AT_Sprint@yahoogroups.com
Sent: Monday, April 08, 2013 6:57 PM
Subject: [AT_Sprint] MTR low out on 20m

Just finished number 87, all went well until testing with a dummy load.
Receives well on both 40m and 20m, with 12volt supply it outputs 5 watt on 40 but only 2 watt on 20. In Tune mode I get 55v p to p at top of D4, on 20m the scope shows 59v p to p. Could this low out on 20 be something in the low pass filter? Wrong capacitor? I double checked the number of turns thru the toroids as well as wire spacing. Any tips would be appreciated.

Ron
W9RCJ

10964. Re: MTR and Pile Up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 15:19:39 UTC
From: f4gha
Topic: 10922 Message: 10964

Hi Fred,

Thanks for your feedback. Your experience of 2 MTR in same time is very interesting.

Oh, I just remember I saw you on different videos with WG0AT. Great job Guys :-)

73 !
Loïc, FY8PE.

10965. Re: [AT_Sprint] What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 15:45:51 UTC
From: Steven Weber
Topic: 10934 Message: 10965

Remember, when you change bands you need to press one of the buttons to wake up the processor to reads the switch. I forget if it will read the band switch after transmitting or not.

Steve KD1JV

Sent from my Kindle Fire

10966. A couple quick MTR videos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 15:50:07 UTC
From: TJ Campie
Topic: 10966 Message: 10966

I just finished building W2MDW's MTR and took a couple videos covering the basic features of the rig and even managed to work Matt in NY with his rig!
Enjoy:

Features: http://www.youtube.com/watch?v=4gKNdpuSXfQ

QSO with Matt: http://www.youtube.com/watch?v=DUA1w024WWM

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

10967. Re: A couple quick MTR videos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 15:53:25 UTC
From: mdweezer
Topic: 10966 Message: 10967

And here's me on the receiving end. Didn't get a chance to adjust the filtering, but once I narrowed the filter a bit, it was an even more audible and crisp signal. A thrill to hear it on the air for the first time!

Happy to be the first QSO on my MTR :P.

http://www.youtube.com/watch?v=tjGVjekcfXo

Thanks TJ for the awesome and quick build turnaround!

73!
-Matt, W2MDW

--- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
>
> I just finished building W2MDW's MTR and took a couple videos covering the
> basic features of the rig and even managed to work Matt in NY with his rig!
> Enjoy:
>
> Features: http://www.youtube.com/watch?v=4gKNdpuSXfQ
>
> QSO with Matt: http://www.youtube.com/watch?v=DUA1w024WWM
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>

10968. Re: A couple quick MTR videos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 16:04:34 UTC
From: f4gha
Topic: 10966 Message: 10968

Great !

Thanks, Thanks for this beautiful videos.

Loïc, FY8PE.

10969. Re: What determines band

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 17:00:03 UTC
From: Colin
Topic: 10934 Message: 10969

Thanks for your reply Steve.

That's not the issue here, the rig seems to wake up after moving the switches with any user input, whether that is a button press or you close a paddle contact.

The problem is that for some reason the processor is not recognising the band resistor for 30m and the rig defaults to 40m with the switches to the left.

Switching back and forth to 20m works as normal.

72,
Colin
--- In AT_Sprint@yahoo
groups.com, Steven Weber <steve.kd1jv@...> wrote:
>
> Remember, when you change bands you need to press one of the buttons to wake up the processor to reads the switch. I forget if it will read the band switch after transmitting or not.
>
> Steve KD1JV
>
> Sent from my Kindle Fire
>

10970. How to enlarge and print an image or selected text in Adobe Reader

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 17:01:45 UTC
From: c6alk
Topic: 10970 Message: 10970

I decided that I needed larger images of the MTR board to better build the unit. Here is, in case folks don't already know, how to enlarge and print those, or any other, images in Adobe Reader (.PDF files). I copied this directly from the Adobe Web site.

How to enlarge and print an image or selected text in Adobe Reader:

1.) Open the PDF in Adobe Reader or Adobe Acrobat.

2.) (Acrobat X/Reader X) Choose Edit > Take A Snapshot.
(Acrobat 9/Reader 9) Choose Tools > Select & Zoom > Snapshot Tool.

3.) Drag a rectangle around the area you want to print.

4.) Choose File > Print.

5.) Make sure that the Selected Graphic option is selected in the Print Range

area of the Print dialog box.

6.) (Optional) To enlarge the selected text or graphic to fit the sheet of paper,

choose Fit To Printable Area from the Page Scaling pop-up menu. Note: Enlarging

the area reduces the printed resolution.

7.) Click OK or Print.

Brian K7RE MTR # 119

10971. Re: [AT_Sprint] How to enlarge and print an image or selected text in Adobe Reader

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 17:27:21 UTC
From: Philip Townsend Lontz
Topic: 10970 Message: 10971

I would kill for a high Rez pix of the front and back side of a New MTR that is working.

"Respect my authority" Cartman of Southpark
Member of no Clubs and affiliated with one one.
Sent via QRP data cell.

On Apr 12, 2013, at 11:01 AM, c6alk <K7RE@...> wrote:

> I decided that I needed larger images of the MTR board to better build the unit. Here is, in case folks don't already know, how to enlarge and print those, or any other, images in Adobe Reader (.PDF files). I copied this directly from the Adobe Web site.
>
> How to enlarge and print an image or selected text in Adobe Reader:
>
> 1.) Open the PDF in Adobe Reader or Adobe Acrobat.
>
> 2.) (Acrobat X/Reader X) Choose Edit > Take A Snapshot.
> (Acrobat 9/Reader 9) Choose Tools > Select & Zoom > Snapshot Tool.
>
> 3.) Drag a rectangle around the area you want to print.
>
> 4.) Choose File > Print.
>
> 5.) Make sure that the Selected Graphic option is selected in the Print Range
>
> area of the Print dialog box.
>
> 6.) (Optional) To enlarge the selected text or graphic to fit the sheet of paper,
>
> choose Fit To Printable Area from the Page Scaling pop-up menu. Note: Enlarging
>
> the area reduces the printed resolution.
>
>
> 7.) Click OK or Print.
>
> Brian K7RE MTR # 119
>
>

10972. #257 lives!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 17:29:19 UTC
From: paradoxpete.pdm@...
Topic: 10972 Message: 10972

#257 was finished abot 60 minutes ago.
First QSO with G3YHO in Norfolk on 40 metres.
He gave me 599. This was using a 9v PP3 battery.
In my haste to call him I forgot to tune my antenna and the SWR was showing 8:1.
The finals survived :-)

This was followed by working T77C on 30m.
He answered on my first call (and he has a pileup running) 599 both ways.
So yes it works on 30 and 40.

Still lashed up on the bench so will attempt to box it up tonight and maybe take it up the hill tomorrow afternoon for a quick SOTA activation.

http://dadedaditdadadeda.blogspot.co.uk/2013/04/mtr-257.html

72
Pete
G4ISJ

10973. Re: How to enlarge and print an image or selected text in Adobe Reader

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 17:51:25 UTC
From: Colin
Topic: 10970 Message: 10973

http://www.flickr.com/photos/24901892@N03/8640988564/

Not quite finished but passed smoke test yesterday evening a little later after photo.

73, Colin
--- In AT_Sprint@yahoogroups.com, Philip Townsend Lontz <philji@...> wrote:
>
> I would kill for a high Rez pix of the front and back side of a New MTR that is working.
>
> "Respect my authority" Cartman of Southpark
> Member of no Clubs and affiliated with one one.
> Sent via QRP data cell.
>
>
>
> On Apr 12, 2013, at 11:01 AM, c6alk <K7RE@...> wrote:
>
> > I decided that I needed larger images of the MTR board to better build the unit. Here is, in case folks don't already know, how to enlarge and print those, or any other, images in Adobe Reader (.PDF files). I copied this directly from the Adobe Web site.
> >
> > How to enlarge and print an image or selected text in Adobe Reader:
> >
> > 1.) Open the PDF in Adobe Reader or Adobe Acrobat.
> >
> > 2.) (Acrobat X/Reader X) Choose Edit > Take A Snapshot.
> > (Acrobat 9/Reader 9) Choose Tools > Select & Zoom > Snapshot Tool.
> >
> > 3.) Drag a rectangle around the area you want to print.
> >
> > 4.) Choose File > Print.
> >
> > 5.) Make sure that the Selected Graphic option is selected in the Print Range
> >
> > area of the Print dialog box.
> >
> > 6.) (Optional) To enlarge the selected text or graphic to fit the sheet of paper,
> >
> > choose Fit To Printable Area from the Page Scaling pop-up menu. Note: Enlarging
> >
> > the area reduces the printed resolution.
> >
> >
> > 7.) Click OK or Print.
> >

> > Brian K7RE MTR # 119
> >
> >
>

10974. Re: [AT_Sprint] Re: A couple quick MTR videos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 17:51:46 UTC
From: TJ Campie
Topic: 10966 Message: 10974

I have had a few inquiries about building an MTR - Please feel free to email me directly for info. If you're willing to part with your fancy case, I'd even do it for free!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Apr 12, 2013 at 11:04 AM, f4gha <comax@hotmail.com> wrote:

> **
>
>
> Great !
>
> Thanks, Thanks for this beautiful videos.
>
> Loïc, FY8PE.
>
>
>

10975. Re: A couple quick MTR videos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 18:01:58 UTC
From: f4gha
Topic: 10966 Message: 10975

Hi TJ,

Thanks for this nice proposition. ;-)
I will try to build my MTR for sure ! hi
But if I doubt or have some problems, you will be one of those I will ask for some help.

But, crossing my fingers, I hope it will work at the first time.

Loïc, FY8PE.

10976. Re: [AT_Sprint] Re: A couple quick MTR videos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 18:03:46 UTC
From: TJ Campie
Topic: 10966 Message: 10976

haha I wasn't intending to reply to you specifically Loic - I'm sure you're well suited for the job! Yours was just the first email I clicked on. Good luck!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Apr 12, 2013 at 1:01 PM, f4gha <comax@...> wrote:

> **
>
>
> Hi TJ,
>
> Thanks for this nice proposition. ;-)
> I will try to build my MTR for sure ! hi
> But if I doubt or have some problems, you will be one of those I will ask
> for some help.
>
> But, crossing my fingers, I hope it will work at the first time.
>
> Loïc, FY8PE.
>
>
>

10977. Re: A couple quick MTR videos

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 18:27:17 UTC
From: f4gha
Topic: 10966 Message: 10977

Haha, I had a doubt and I thought : he is not talking to me, or it's an extraordinary man. hi
But I'm sure you will be there to carry me advice if I have a small problem.

Best 73.
Loïc, FY8PE.

--- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
>
> haha I wasn't intending to reply to you specifically Loic - I'm sure you're
> well suited for the job! Yours was just the first email I clicked on. Good
> luck!
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Fri, Apr 12, 2013 at 1:01 PM, f4gha <comax@...> wrote:
>
> > **
> >
> >
> > Hi TJ,
> >
> > Thanks for this nice proposition. ;-)
> > I will try to build my MTR for sure ! hi
> > But if I doubt or have some problems, you will be one of those I will ask
> > for some help.
> >
> > But, crossing my fingers, I hope it will work at the first time.
> >
> > Loïc, FY8PE.
> >
> >
> >
>

10978. Re: How to enlarge and print an image or selected text in Adobe Reader

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 18:27:17 UTC
From: Keith Hamilton
Topic: 10970 Message: 10978

Super nice job Colin! Great pictures! Congratulations on your skill!

73 Keith N8CEP

--- In AT_Sprint@yahoogroups.com, "Colin" <m0cgh@...> wrote:
>
>
> http://www.flickr.com/photos/24901892@N03/8640988564/
>
> Not quite finished but passed smoke test yesterday evening a little later after photo.
>
> 73, Colin
> --- In AT_Sprint@yahoogroups.com, Philip Townsend Lontz <philji@> wrote:
> >
> > I would kill for a high Rez pix of the front and back side of a New MTR that is
working.
> >
> > "Respect my authority" Cartman of Southpark
> > Member of no Clubs and affiliated with one one.
> > Sent via QRP data cell.
> >
> >
> >
> > On Apr 12, 2013, at 11:01 AM, c6alk <K7RE@> wrote:
> >
> > > I decided that I needed larger images of the MTR board to better build the unit. Here
is, in case folks don't already know, how to enlarge and print those, or any other, images
in Adobe Reader (.PDF files). I copied this directly from the Adobe Web site.
> > >
> > > How to enlarge and print an image or selected text in Adobe Reader:
> > >
> > > 1.) Open the PDF in Adobe Reader or Adobe Acrobat.
> > >
> > > 2.) (Acrobat X/Reader X) Choose Edit > Take A Snapshot.
> > > (Acrobat 9/Reader 9) Choose Tools > Select & Zoom > Snapshot Tool.
> > >
> > > 3.) Drag a rectangle around the area you want to print.
> > >
> > > 4.) Choose File > Print.
> > >
> > > 5.) Make sure that the Selected Graphic option is selected in the Print Range
> > >
> > > area of the Print dialog box.
> > >
> > > 6.) (Optional) To enlarge the selected text or graphic to fit the sheet of paper,

> > >
> > > choose Fit To Printable Area from the Page Scaling pop-up menu. Note: Enlarging
> > >
> > > the area reduces the printed resolution.
> > >
> > >
> > > 7.) Click OK or Print.
> > >
> > > Brian K7RE MTR # 119
> > >
> > >
> >
>

10979. 30m / 20m MTR band switch fixed!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 20:03:59 UTC
From: Colin
Topic: 10979 Message: 10979

My MTR is now switching beautifully between 30m and 20m.

I simply swapped out the 22K resistor at position R4 (BS2) for an 18K.

I didn't try other values resistor, 18K was a guess.

I'm so happy, I was almost at the point of swapping the bands on the rig to 40m and 30m instead.

On with the build!

73, Colin
M0CGH

10980. Re: What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 20:13:27 UTC
From: Colin
Topic: 10934 Message: 10980

--- In AT_Sprint@yahoogroups.com, "f_skinner" <f_skinner@...> wrote:
>
> I completed my MTR, I built it for 20 and 30 meters or so I thought. I have low power output on both bands (around 1 watt) but what concerns me is instead of 30 meters it is transmitting on 40 meters and the band indicator for band 2 is a "4" so it does not go to or see 30 meters at all.
>
> Is there something additional I need to do to get 30 meters? Since I wound everything for 30 and used the resistor and cap values for 30 meters I am thinking that would explain the low power output but I need it to be on 30 meters. (20 meters is set as BS1 (10K resistor) and 30 meters as BS2 (22K resistor)).
>
> I just went through and checked all the values on the resistors for bnd b (I cannot check the caps) and re-counted the turns on L12 and L13. I am not sure what to do next.
>
> Thanks for any help
>
> Frank
> K0JQZ
>

10981. Waiting for Steve to return...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 20:32:40 UTC
From: russellhulett
Topic: 10981 Message: 10981

Based on the messages about part placement, power ouput, and band switching, seems best to wait until Steve returns and sorts out the issues before beginning construction of my MTR? Guessing about July will be a good time to start soldering.

Not an early implementer, I never buy s/n 1 of anything, don't install software until after first service pack arrives, don't build kits until the issues have surfaced and resolved.

72, Curt KB5JO

10982. Re: What determines band?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 20:36:07 UTC
From: jgaffke
Topic: 10934 Message: 10982

The MSP430 measures the voltage at pin 20 to determine which
band has been selected by the switch.

From what Peter says, sounds like the firmware is a mix of
choosing between two bands if calibrated, and between four
or five bands if not calibrated?

Could nail the switch to be either 3.3v or 0v and hack the
firmware to allow the user to select the two active bands
through the switches, permanently saving that selection to flash.

But should just work as is, the MSP430's ADC should have no trouble
distinguishing between four or five different voltages. Very weird.
I wonder if it is temperature dependent?

If I had to tune it, I'd probably hack in a 10k pot to determine
where mid range is for the bands of interest, then substitute in
the appropriate fixed resistor values.

Glad mine just works (on 20 and 40 at least).

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, Peter Martin <paradoxpete.pdm@...> wrote:
>
> Colin,
> That is exactly what I did with mine when I converted to 60m (and it still
> operated on 40)
>
> If I remember, after delving into the code a little, it retrieves the
> settings on power up from the user preferences.
> I seem to remember it sets a flag to always do so "if calibrated".
> To force the flag to "not calibrated" you need to do the master reset
> described and then then when the band switches are scanned the new band
> values are loaded.
>
> I'll let you know if it works for me as 30 is in my latest rig (maybe get
> to power up today!)
>
> Pete
> G4ISJ
>
>
>
>
> On Thu, Apr 11, 2013 at 11:46 PM, Colin <m0cgh@...> wrote:
>

> > Don't give up Frank!
> >
> > The MTR is a cool radio! My 40m/20m MTR is my favourite SOTA rig, I really
> > love it, that's why I bought another!
> >
> > It seems from your description that your build job is just fine.
> >
> > A solution will appear and we'll soon be working DX on 30m. I've been
> > using a RockMite on 30m up to now, sure it's fun working across the pond
> > with 400mW, but it will be nice to just hear the replying station and not
> > the entire band!
> >
> > I think I'll have a rest day tomorrow I've been building the MTR in short
> > sessions since Saturday.
> >
> > 73, Colin
> >
> > --- In AT_Sprint@yahoogroups.com, Frank Skinner <f_skinner@> wrote:
> > >
> > > Hi Colin, well I do not know if I am happy about that or not. I sure am
> > sorry your having the same issue. I have decided not to mess with it today
> > as it has taken up too much of my time already and it stopped being fun
> > late last night.
> > >
> > > I learned how to "melt solder" which I had never done in the past so at
> > least it accomplished that and it is a very cool process to watch. Since I
> > wanted to use this radio for minimalist SOTA activations this summer I will
> > wait until one comes up for sale (built and working) regardless of the band
> > configuration.Â
> > >
> > > I do appreciate everyones effort to help me troubleshoot.Â
> > >
> > > 72
> > > Frank
> > > K0JQZ
> > >
> > >
> > >
> > >
> > > _____
> > > From: Colin <m0cgh@>
> > > To: AT_Sprint@yahoogroups.com
> > > Sent: Thursday, April 11, 2013 3:44 PM
> > > Subject: [AT_Sprint] Re: What determines band?
> > >
> > >
> > >
> > > Â
> > > Hi Frank,
> > >

> > > It would appear that this is an issue with the kit, rather than a build
> > problem.
> > >
> > > I have just completed the 'smoke' test, happily the smoke didn't appear!
> > >
> > > My 30m / 20m build is also showing operation on 40m and 20m.
> > >
> > > Is this a firmware fault perhaps? I could maybe try some different
> > values of band select resistor to see if I can trigger a '3' in place of my
> > '4'.
> > >
> > > Right now though I'm tired, I'm off to bed!
> > >
> > > so you're not alone, my rig is exactly the same.
> > >
> > > 72, Colin, M0CGH
> > > MTR #267
> > >
> > > --- In AT_Sprint@yahoogroups.com, "f_skinner" <f_skinner@> wrote:
> > > >
> > > > I completed my MTR, I built it for 20 and 30 meters or so I thought. I
> > have low power output on both bands (around 1 watt) but what concerns me is
> > instead of 30 meters it is transmitting on 40 meters and the band indicator
> > for band 2 is a "4" so it does not go to or see 30 meters at all.
> > > >
> > > > Is there something additional I need to do to get 30 meters? Since I
> > wound everything for 30 and used the resistor and cap values for 30 meters
> > I am thinking that would explain the low power output but I need it to be
> > on 30 meters. (20 meters is set as BS1 (10K resistor) and 30 meters as BS2
> > (22K resistor)).
> > > >
> > > > I just went through and checked all the values on the resistors for
> > bnd b (I cannot check the caps) and re-counted the turns on L12 and L13. I
> > am not sure what to do next.
> > > >
> > > > Thanks for any help
> > > >
> > > > Frank
> > > > K0JQZ
> > > >
> > >
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >

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> >
>

10983. Re: Waiting for Steve to return...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 20:42:27 UTC
From: jgaffke
Topic: 10981 Message: 10983

I'd go ahead an build it.
At worst you will be changing one or two resistors, and that
seems to be mostly on rigs that are not the default 20/40.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "russellhulett" wrote:
> seems best to wait until Steve returns and sorts out the issues

10984. Re: Waiting for Steve to return...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-12 21:21:02 UTC
From: Colin
Topic: 10981 Message: 10984

I'd second Jerry's comments, don't be afraid to start building, the MTR is a proven design.

The parts placement is easy to work out using all the available resources, if you get stuck at any point, there are plenty of us on this reflector that can help you out.

The band switching works perfectly on 40m and 20m, so no worries there.

You're missing out on too much fun if you wait until July.

Field day will be over by then! :-)

72, Colin, M0CGH

--- In AT_Sprint@yahoogroups.com, "russellhulett" <rhulett1@...> wrote:
>
> Based on the messages about part placement, power ouput, and band switching, seems best to wait until Steve returns and sorts out the issues before beginning construction of my MTR? Guessing about July will be a good time to start soldering.
>
> Not an early implementer, I never buy s/n 1 of anything, don't install software until after first service pack arrives, don't build kits until the issues have surfaced and resolved.
>
> 72, Curt KB5JO
>

10985. Re: 30m / 20m MTR band switch fixed!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 00:30:50 UTC
From: f_skinner
Topic: 10979 Message: 10985

Anyone have an 18k resistor they are willing to part with?

Also, is there any advice or YouTube link on how to remove these resistors?

Frank
K0JQZ

--- In AT_Sprint@yahoogroups.com, "Colin" <m0cgh@...> wrote:
>
> My MTR is now switching beautifully between 30m and 20m.
>
> I simply swapped out the 22K resistor at position R4 (BS2) for an 18K.
>
> I didn't try other values resistor, 18K was a guess.
>
> I'm so happy, I was almost at the point of swapping the bands on the rig to 40m and 30m instead.
>
> On with the build!
>
> 73, Colin
> M0CGH
>

10986. Re: [AT_Sprint] Re: 30m / 20m MTR band switch fixed!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 00:45:26 UTC
From: Steve Galchutt
Topic: 10979 Message: 10986

2-solder irons at the same time work in pinch? ...says, Peanut

On Apr 12, 2013, at 6:30 PM, "f_skinner" <f_skinner@...> wrote:

>
> Anyone have an 18k resistor they are willing to part with?
>
> Also, is there any advice or YouTube link on how to remove these resistors?
>
> Frank
> K0JQZ
>
> --- In AT_Sprint@yahoogroups.com, "Colin" <m0cgh@...> wrote:
> >
> > My MTR is now switching beautifully between 30m and 20m.
> >
> > I simply swapped out the 22K resistor at position R4 (BS2) for an 18K.
> >
> > I didn't try other values resistor, 18K was a guess.
> >
> > I'm so happy, I was almost at the point of swapping the bands on the rig to 40m and 30m instead.
> >
> > On with the build!
> >
> > 73, Colin
> > M0CGH
> >
>
>

10987. Re: 30m / 20m MTR band switch fixed!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 00:45:33 UTC
From: jgaffke
Topic: 10979 Message: 10987

I usually pluck them off with two soldering irons.
Or could add 100k in parallel with the 22k to get 18k.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "f_skinner" <f_skinner@...> wrote:
> any advice or YouTube link on how to remove these resistors?

10988. Re: 30m / 20m MTR band switch fixed!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 03:58:22 UTC
From: jgaffke
Topic: 10979 Message: 10988

I think the values in the firmware are incorrect for
the resistors that get stuffed for 30 and 40 meters.
Dave, VK2DDJ, provided a firmware fix for this, mentioned in
message 9267. His zip file is in Files/MTR/IAR/MTR Flash.zip
There were also some band edge issues, mentioneed in 9375
But perhaps none of this made it into Steve's codebase.
There may be other bugs mentioned in those discussions as well.

If you don't want to mess with loading new firmware, another
solution is to change the resistor values.
I think 18k looks good for 30 meters, and 33k for 40 meters.
This can be had by tacking a 100k resistor over the top of the
existing 22k for 30 meters or 100k over the existing 47k for 40 meters.
This applies to resistors R3 and R4, shown in the schematics
in the lower right of the first sheet of the schematics.

Here's some of the boring details:

Look at the code in the Files section under MTR/IAR/MTR_2.s43
Date on the file is May 14, 2012, so I assume it was built for the
first run of MTR rigs, and that the second run of rigs take exactly
the same firmware.

Looks like the 10 bit ADC is set up to continuously read the voltage
at pins 20 (band switch) and 19 (battery), leaving the 10 bit result
at memory addresses adrst0 (band) and adrst1 (battery).
The ADC is configured to use an internally generated 2.5 volt reference
voltage for the highest ADC value of 0x3FF, and 0 volts in gives 0x000.

The section of code labeled "band:" uses this algorithm:

Read 10 bit ADC reading of pin 20 voltage from RAM address adrst0,
If reading >= 0x3a0 (2.27 volts), then band is 80m
ElseIf reading >= 0x2a0 (1.64 volts), then band is 40m
ElseIf reading >= 0x200 (1.25 volts), then band is 30m
Else band is 20m

For example, the 80m comparison value is 0x3a0 hexadecimal, or 928 decimal.
If all ADC 10 bits are 1's for a full scale reading of 0x3ff, thats 1023
Since full scale is 2.5 volts, a reading of 0x3a0 is 2.5v*(928/1023) = 2.27v

(With VK2DDJ's fix, those values are adjusted to 0x3ec, 0x30a,
and 0x207 respectively. If you make Daves firmware change,
you should not change the resistor values. I have not verified
Dave's values.)

The resistive divider between 3.3v and ground as selected by the band
switch gives the following voltages into pin 20 for stock resistors:
3.3v * 100/(22+100)= 2.70v for 80m
3.3v * 47/(22+47) = 2.25v for 40m
3.3v * 22/(22+22) = 1.65v for 30m
3.3v * 10/(22+10) = 1.03v for 20m

The voltages for 80 and 20 look good.
The values for 30 and 40 are right on the cusp of flipping between
the two adjacent bands.

The easiest fix now with several hundred rigs out there would be
to change the resistor values rather than the firmware.
We want the R4 value for 40m to give a voltage about halfway between 1.64
and 2.27v, or 1.95 volts. The R4 value for 30m should put the voltage
halfway between 1.25 and 1.64v, or 1.45 volts.

For those that want to wade in further, here's some comments I created
to figure out how the ADC gets initialized. Only weird thing is,
it gets set up to read channels A0 through A4, but only channels A3
and A4 get used. Vref is the internal 2.5v voltage reference,
it does not an external pin in this case.

The ADC reads the highest channel first (A4) and writes the result
to the lowest memory location (adrst0), which might be a bit
counterintuitive.

ADC10CTL0: 3cf0: 001 11 1 0 0 1 1 1 1 0 0 0 0
001: Vr+=Vref+, Vr-=Vss
11: 64xADC10CLKs sample and hold time
1: Ref buffer drive suitable for 50 ksps
0: Ref output off
0: Ref buffer on continuously, not just during sample
1 samples taken continuously
1: 2.5v ref generator
1: ref generator on
1: ADC10 on
0: interrupt disabled
0: no interrupt pending (set when conversion complete)
0: ADC10 conversion disabled
0: No sample and conversion start

ADC10CTL1: 402e: 0100 00 0 0 001 01 11 0
0100: A4 is highest input channel for sequence of 5 conversions, 0-4
00: ADC10SC is sample and hold source select
0: Straight binary (not 2's complement)
0: Sample input signal is not inverted
001: ADC clock divided by 2
01: ADC clock source is ACLK
11: Repeat sequence of channels, so continuously convert
0: ADC10 not busy

ADC10AE0: 0018: 1 1 0 0 0 Turn on ADC inputs A4, A3 at pins 20, 19
ADC10DTC0: bitset #ADC10CT, for auto data transfer mode
ADC110DC1: 0005: 5 data transfers, start from top and work down
ADC10SA: 0x240: Start RAM address, band is adrst0 and battery is adrst1

Jerry, KE7ER

10989. Re: [AT_Sprint] Re: 30m / 20m MTR band switch fixed!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 07:57:53 UTC
From: Colin Tuckley
Topic: 10979 Message: 10989

On 13/04/13 04:58, jgaffke wrote:

> I think the values in the firmware are incorrect for the resistors
> that get stuffed for 30 and 40 meters.

Yes, I seem to remember something about this when the first run kits appeared and I thought Steve fixed it - wasn't that what the "yellow dot" processor chips were for?

> Dave, VK2DDJ, provided a firmware fix for this, mentioned in message 9267.

There have been a few firmware updates suggested, incl mods for 60m band operation.

> If you don't want to mess with loading new firmware, another solution
> is to change the resistor values.

I think that it's probably best to tweak the firmware values a little bit so that rigs built to the current design work more reliability, but to also change the resistor values as you suggested.

Quite a few of the MTR builders have bought TI Launchpads for programming the board so it ought to be reasonably easy for people to find someone close to them to get their rigs re-programmed, maybe by post in some cases.

For those in the UK who want their rig updated I have a Launchpad and can help.

> I think 18k looks good for 30 meters, and 33k for 40 meters.
> This can be had by tacking a 100k
> resistor over the top of the existing 22k for 30 meters or 100k over
> the existing 47k for 40 meters. This applies to resistors R3 and R4,
> shown in the schematics in the lower right of the first sheet of the
> schematics.

A clever solution.

> Here's some of the boring details:

A very good analysis.

> (With VK2DDJ's fix, those values are adjusted to 0x3ec, 0x30a, and
> 0x207 respectively. If you make Daves firmware change, you should not
> change the resistor values. I have not verified Dave's values.)

It should be possible to change the firmware enough to make existing rigs work and also have it work with the new suggested resistor values too.

> it gets set up to read channels A0 through A4, but only channels
> A3 and A4 get used.

I think you might have to set the A/D in groups (of 4), my ref book
isn't to hand atm.

I'm still building the first run MTR kit I only got recently but I
intend to do some playing with the firmware once it's running, mostly to
use 60m. I may spend the time to bring all the various mod proposals
together and issue an updated version like I did with the firmware for
the ATS-3B

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

I refuse a battle of wits with an unarmed person!

10990. Re: [AT_Sprint] Re: 30m / 20m MTR band switch fixed!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 09:54:41 UTC
From: Colin Evans
Topic: 10979 Message: 10990

Thanks for the offer of help and all the info Colin.

I believe I am sorted now.

The yellow dot firmware update was to cure the original firmware's habit of transmitting the menu feedback announcements over the air rather than just locally to the headphones.

The new MTR kit uses the 'yellow dot' firmware - if it ain't broke, don't fix it!

73, Colin, M0CGH

Sent from my Android device.
On Apr 13, 2013 8:57 AM, "Colin Tuckley" <colin@...> wrote:

> On 13/04/13 04:58, jgaffke wrote:
>
> > I think the values in the firmware are incorrect for the resistors
> > that get stuffed for 30 and 40 meters.
>
> Yes, I seem to remember something about this when the first run kits
> appeared and I thought Steve fixed it - wasn't that what the "yellow
> dot" processor chips were for?
>
> > Dave, VK2DDJ, provided a firmware fix for this, mentioned in message
> 9267.
>
> There have been a few firmware updates suggested, incl mods for 60m band
> operation.
>
> > If you don't want to mess with loading new firmware, another solution
> > is to change the resistor values.
>
> I think that it's probably best to tweak the firmware values a little
> bit so that rigs built to the current design work more reliability, but
> to also change the resistor values as you suggested.
>
> Quite a few of the MTR builders have bought TI Launchpads for
> programming the board so it ought to be reasonably easy for people to
> find someone close to them to get their rigs re-programmed, maybe by
> post in some cases.
>
> For those in the UK who want their rig updated I have a Launchpad and
> can help.
>

>
> > I think 18k looks good for 30 meters, and 33k for 40 meters.
> > This can be had by tacking a 100k
> > resistor over the top of the existing 22k for 30 meters or 100k over
> > the existing 47k for 40 meters. This applies to resistors R3 and R4,
> > shown in the schematics in the lower right of the first sheet of the
> > schematics.
>
> A clever solution.
>
> > Here's some of the boring details:
>
> A very good analysis.
>
> > (With VK2DDJ's fix, those values are adjusted to 0x3ec, 0x30a, and
> > 0x207 respectively. If you make Daves firmware change, you should not
> > change the resistor values. I have not verified Dave's values.)
>
> It should be possible to change the firmware enough to make existing
> rigs work and also have it work with the new suggested resistor values too.
>
> > it gets set up to read channels A0 through A4, but only channels
> > A3 and A4 get used.
>
> I think you might have to set the A/D in groups (of 4), my ref book
> isn't to hand atm.
>
> I'm still building the first run MTR kit I only got recently but I
> intend to do some playing with the firmware once it's running, mostly to
> use 60m. I may spend the time to bring all the various mod proposals
> together and issue an updated version like I did with the firmware for
> the ATS-3B
>
> Colin G8TMV
>
>
> --
> Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
> Debian Developer | +44(0)7799 143369 | 0x1B3045CE
>
> I refuse a battle of wits with an unarmed person!
>
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> Yahoo! Groups Links
>
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>

10991. Source for 18K SMT resistor help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 13:27:21 UTC
From: f_skinner
Topic: 10991 Message: 10991

In my quest to find a 18K resistor to be able to use my MTR on 30 meters I am getting confused when searching the Mouser Electronics web site as to which SMT resistor I should get.

http://www.mouser.com/Passive-Components/Resistors/_/N-5g9n?P=1yzeg25Z1z0z7ym&SAP=true

I am just not too smart on these things so if someone could clue me in so I order the right resistor I would appreciate it greatly. I figured I would order a few of them for other people that run into the same issue.

Thanks in advance
Frank
K0JQZ
f_skinner@...

Colin, thank you for all your help and emails my friend.

10992. Re: Source for 18K SMT resistor help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 15:15:10 UTC
From: jgaffke
Topic: 10991 Message: 10992

Frank,

Only important thing is the size. Steve uses 0805 resistors,
meaning they are 80 by 50 thousands of an inch.
I'd tend to go with 1% parts at almost no extra cost.
Here's a possibility, Mouser part number: 652-CR0805FX-1802ELF

If you already have Steve's resistors soldered down, you could
instead tack a 100K on top of the existing resistor for R3 or R4
to select 30 or 40 meters: 652-CR0805FX-1003ELF

There's a couple hundred rigs out there working with the
current firmware, mostly no complaints. I want to emphasize
that with this resistor change (and in most cases without it)
the MTR is plenty good enough.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "f_skinner" <f_skinner@...> wrote:
> searching the Mouser ... which SMT resistor I should get

10993. Re: [AT_Sprint] Source for 18K SMT resistor help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 15:19:57 UTC
From: wmorrill@...
Topic: 10991 Message: 10993

Frank-
I have an assortment of sm resistors, slightly larger than those in your kit. Let me know if you need a couple, and I will send them to you.
If you plan to do much kit building, assortments of resistors and capacitors are comparatively inexpensive. However, be aware that there are several physical sizes.
Wendell
N7WM

> In my quest to find a 18K resistor to be able to use my MTR on 30 meters I
> am getting confused when searching the Mouser Electronics web site as to
> which SMT resistor I should get.
>
> http://www.mouser.com/Passive-Components/Resistors/_/N-5g9n?P=1yzeg25Z1z0z7ym&SAP=true
>
> I am just not too smart on these things so if someone could clue me in so
> I order the right resistor I would appreciate it greatly. I figured I
> would order a few of them for other people that run into the same issue.
>
> Thanks in advance
> Frank
> K0JQZ
> f_skinner@...
>
>
>
> Colin, thank you for all your help and emails my friend.
>
>

10994. Re: Source for 18K SMT resistor help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 15:22:44 UTC
From: f4gha
Topic: 10991 Message: 10994

Great Post Jerry !

Thanks ! It's very useful.

Loïc, FY8PE.

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Frank,
>
> Only important thing is the size. Steve uses 0805 resistors,
> meaning they are 80 by 50 thousands of an inch.
> I'd tend to go with 1% parts at almost no extra cost.
> Here's a possibility, Mouser part number: 652-CR0805FX-1802ELF
>
> If you already have Steve's resistors soldered down, you could
> instead tack a 100K on top of the existing resistor for R3 or R4
> to select 30 or 40 meters: 652-CR0805FX-1003ELF
>
> There's a couple hundred rigs out there working with the
> current firmware, mostly no complaints. I want to emphasize
> that with this resistor change (and in most cases without it)
> the MTR is plenty good enough.
>
> Jerry, KE7ER
>
>
>
> --- In AT_Sprint@yahoogroups.com, "f_skinner" <f_skinner@> wrote:
> > searching the Mouser ... which SMT resistor I should get
>

10995. Re: [AT_Sprint] Re: Source for 18K SMT resistor help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 15:57:10 UTC
From: Frank Skinner
Topic: 10991 Message: 10995

Thanks Jerry, that was most useful and I learned something new.

I guess Colin and I were just lucky.

Frank

Sent from my iPhone

On Apr 13, 2013, at 9:15, "jgaffke" <jgaffke@...> wrote:

> Frank,
>
> Only important thing is the size. Steve uses 0805 resistors,
> meaning they are 80 by 50 thousands of an inch.
> I'd tend to go with 1% parts at almost no extra cost.
> Here's a possibility, Mouser part number: 652-CR0805FX-1802ELF
>
> If you already have Steve's resistors soldered down, you could
> instead tack a 100K on top of the existing resistor for R3 or R4
> to select 30 or 40 meters: 652-CR0805FX-1003ELF
>
> There's a couple hundred rigs out there working with the
> current firmware, mostly no complaints. I want to emphasize
> that with this resistor change (and in most cases without it)
> the MTR is plenty good enough.
>
> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, "f_skinner" <f_skinner@...> wrote:
> > searching the Mouser ... which SMT resistor I should get
>
>

10996. MTR #267 alive! :-)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-13 20:21:06 UTC
From: Colin
Topic: 10996 Message: 10996

I've just calibrated MTR s/n 267.

My MTR is built for 30m and 20m, from a 9v PP3 battery I'm showing 3 Watts on 30m and just a little less on 20m, around 2.5 watts.

Another MTR is born!

72, Colin, M0CGH

10997. How to check for key clicks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 04:25:16 UTC
From: XV4Y
Topic: 10997 Message: 10997

Hi,

This question is a bit out of topic.
Several things, including the fact that "portable" is not allowed in Vietnam, do not allow me to do SOTA operation like most of the ATS/MTR owners must be doing.
I am mostly using my MTR during power cuts (on battery) and at my in-laws farm.
Since I have no real weight restriction, I have been thinking about adding a little more power to this small jewel.

3 years ago I found several reformed amplifiers in a flea shop in Saigon.
They are 2SC2290 push-pull working under 15V. With 12W and 10W I have 100W out on 14 MHz, less on 10 MHz, a little more on 21 MHz.
Hooking my MTR to one the amp input, I have 55W out for 4W in. Perfect.
I have check the signal shape on a scope and it is a beautiful sinusoid, no signs of harmonics so far.
I have added a RF sensing circuit and a RX/TX switching circuit. It works very well so I am ready to go.

However, since my next portable operation is in May, I have a little time check things.
I would like to see if my RX/TX relay is switching fast enough. The RF sensing circuit (borrowed from ON6MU) should detect signals under 100mW, but I am concerned by the realy by itself.

I only have in hands an analog scope Iwatsu SS-6122. I bought it used 4 months ago and it is a very longtime since I have played with scopes.
I have tried to put the RF signal to Channel 1 and my paddle to channel 2, driving the Trigger with channel 2 but it does not work as expected.

Is their a way to do such measurement with an analog scope or do I need a DSO ?
Please give me any advice you think relevant...

Thanks by advance.
73,
Yan.

Yannick DEVOS - XV4Y
New online shop for kits and more
http://xv4y.radioclub.asia/boutique/

10998. Re: How to check for key clicks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 05:16:22 UTC
From: jgaffke
Topic: 10997 Message: 10998

Yannick,

Triggering on the keyer paddle will only allow you to see the
very first rising edge. You would do much better triggering
on the gate of Q4 (a square wave between 0 and 3 volts)
while sending a string of dots with the paddle.

What did not work as expected?
I'd guess you are having trouble getting the scope to trigger
properly. Triggering mode should be set to "normal" on "rising
edge", and adjust the triggering level so it is in the middle of
the triggering signal. Turn on the display for channel 2 while
adjusting the trigger so you can see what you are doing.

That's a 100 MHz four channel scope. Should be a very fine
choice for work around HF radio.

You're on the right track, triggering on the keying line
while observing the RF output. Should see the signal envelope
rise from zero to full power in about 5 milliseconds. Set the
horizontal sweep rate to around 1 millisecond/div.
Since the relay won't turn on at zero power there will be an
initial step in the envelope when it first turns on. Should be
OK if it's under a watt or so. You also want to check the
falling edge of the signal envelope (trigger on Q4 gate falling
edge) should decay back to zero in 5 milliseconds. The MTR
sends out a very nice trapezoid.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, XV4Y <xv4y@...> wrote:
>...I would like to see if my RX/TX relay is switching fast enough...
> I only have in hands an analog scope Iwatsu SS-6122.
> I have tried to put the RF signal to Channel 1 and my paddle to
> channel 2, driving the Trigger with channel 2 but it does not
> work as expected.

10999. Re: [AT_Sprint] Re: How to check for key clicks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 06:33:52 UTC
From: XV4Y (Yan)
Topic: 10997 Message: 10999

Hi Jerry,

Thanks for confirming me that is possible.
That's what I was doing, or at least I thought so. The trigger was in AUTO.
I tried Q4 too but did not want to fiddle too much with the MTR itself making a short or so.
I must admit not having the oscilloscope user's manual I am sometime lost in the trigger settings.

I will try again later taking it step by step.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

Le 14 avr. 2013 à 12:16, jgaffke a écrit :

> Yannick,
>
> Triggering on the keyer paddle will only allow you to see the
> very first rising edge. You would do much better triggering
> on the gate of Q4 (a square wave between 0 and 3 volts)
> while sending a string of dots with the paddle.
>
> What did not work as expected?
> I'd guess you are having trouble getting the scope to trigger
> properly. Triggering mode should be set to "normal" on "rising
> edge", and adjust the triggering level so it is in the middle of
> the triggering signal. Turn on the display for channel 2 while
> adjusting the trigger so you can see what you are doing.
>
> That's a 100 MHz four channel scope. Should be a very fine
> choice for work around HF radio.
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> You're on the right track, triggering on the keying line
> while observing the RF output. Should see the signal envelope
> rise from zero to full power in about 5 milliseconds. Set the
> horizontal sweep rate to around 1 millisecond/div.
> Since the relay won't turn on at zero power there will be an
> initial step in the envelope when it first turns on. Should be
> OK if it's under a watt or so. You also want to check the
> falling edge of the signal envelope (trigger on Q4 gate falling
> edge) should decay back to zero in 5 milliseconds. The MTR

> sends out a very nice trapezoid.
>
> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, XV4Y <xv4y@...> wrote:
>> ...I would like to see if my RX/TX relay is switching fast enough...
>> I only have in hands an analog scope Iwatsu SS-6122.
>> I have tried to put the RF signal to Channel 1 and my paddle to
>> channel 2, driving the Trigger with channel 2 but it does not
>> work as expected.
>
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> Yahoo! Groups Links
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11000. Part Number for DPDT Switch (MTR)?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 14:37:22 UTC
From: steve_wg0at
Topic: 11000 Message: 11000

Does anyone happen to have or know the PN for tiny those through-hole slide switches used in the MTRs? I'm wanting to replace my broken one before I install it into another case.

Thanks, Steve wGOAT

11001. Re: [AT_Sprint] Part Number for DPDT Switch (MTR)?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 17:03:40 UTC
From: Scott Zastoupil
Topic: 11000 Message: 11001

Steve,

I'm pretty sure it's this one. I looked at my MTR and the part has C&K stamped on the side. I also checked the pin spacing on my MTR compared to the datasheet.

http://www.mouser.com/ProductDetail/CK-Components/0S202011MS2QN1/?qs=sGAEpiMZZMsqIr59i2oRclJQZtb8Z%2fwa3qNR%2fKy5T70%3d

Mouser Part #:

611-OS202011MS2QN1
Manufacturer Part #:
0S202011MS2QN1
Manufacturer:
C&K Components

JFYI, there is another switch with the "QS1" suffix in the PN instead of the "QN1" I listed above. The QS1 is the shorting version (make before break switch). I don't think you want the shorting one in that way that Steve designed the band switching circuitry.

Scott, KB0KFX

From: steve_wg0at <qrp.wg0at@...>
To: AT_Sprint@yahoogroups.com
Sent: Sunday, April 14, 2013 9:37 AM
Subject: [AT_Sprint] Part Number for DPDT Switch (MTR)?

Does anyone happen to have or know the PN for tiny those through-hole slide switches used in the MTRs? I'm wanting to replace my broken one before I install it into another case.

Thanks, Steve wGOAT

11002. Re: [AT_Sprint] Part Number for DPDT Switch (MTR)?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 17:49:34 UTC
From: Steve Galchutt
Topic: 11000 Message: 11002

Thank you, Scott! This looks like the item ...donno about the make before break business? But I'll go with your hunch and order this one.

Actually I'm using my new MTR2's beautiful case to install my old 20/40 in. I'll also probably rob one of MTR2's switches to fix up MTR1's broken one then when I get the courage to build my MTR2 I can worry about the missing switch ...Steve wGOAT

On Apr 14, 2013, at 11:03 AM, Scott Zastoupil <szastoupil@yahoo.com> wrote:

>
> Steve,
>
> I'm pretty sure it's this one. I looked at my MTR and the part has C&K stamped on the side. I also checked the pin spacing on my MTR compared to the datasheet.
>
> http://www.mouser.com/ProductDetail/CK-Components/0S202011MS2QN1/?qs=sGAEpiMZZMsqIr59i2oRclJQZtb8Z%2fwa3qNR%2fKy5T70%3d
>
> Mouser Part #:
> 611-OS202011MS2QN1
> Manufacturer Part #:
> 0S202011MS2QN1
> Manufacturer:
> C&K Components
>
> JFYI, there is another switch with the "QS1" suffix in the PN instead of the "QN1" I listed above. The QS1 is the shorting version (make before break switch). I don't think you want the shorting one in that way that Steve designed the band switching circuitry.
>
> Scott, KB0KFX
>
>
>
>
> From: steve_wg0at <qrp.wg0at@...>
> To: AT_Sprint@yahoogroups.com
> Sent: Sunday, April 14, 2013 9:37 AM
> Subject: [AT_Sprint] Part Number for DPDT Switch (MTR)?
>
>
> Does anyone happen to have or know the PN for tiny those through-hole slide switches used in the MTRs? I'm wanting to replace my broken one before I install it into another case.
>
> Thanks, Steve wGOAT
>
>

>
>
>

11003. U11 in MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 17:53:38 UTC
From: Joseph Trombino, Jr
Topic: 11003 Message: 11003

Howdy Gang:

I just installed U11 the 40Mhz Osc can.

The board placement indicates a "DOT" in the upper left for pin 1.

Using my OptiVisor I can see a "DOT" under the "T" and to the left of "4" as in TXCB and 40.000.

I took it that this little dot on the can indicates pin1???

It is soldered with the print on the little can vertical...with the TXCB in the upper right.

I assume this is the correct position??

Any info appreciated.

73, Joe W2KJ
I QRP, therefore I am

11004. Re: U11 in MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 18:12:15 UTC
From: jgaffke
Topic: 11003 Message: 11004

Dot and print should be oriented just like the AC02 at U8.
Dot is in the corner nearest the headphone connections.

11005. Re: [AT_Sprint] U11 in MTR kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 18:22:13 UTC
From: Colin Tuckley
Topic: 11003 Message: 11005

On 14/04/13 18:53, Joseph Trombino, Jr wrote:

> The board placement indicates a "DOT" in the upper left for pin 1.

The photo on Page 3 of the manual clearly shows the dot.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

Scaldophobia: Fear the toilet will flush while showering.

11006. re: Dot on U11

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 18:47:14 UTC
From: Joseph Trombino, Jr
Topic: 11006 Message: 11006

Many thanks for the responses regarding the positioning of U11.

WOW!! The dot on the little can is very faint on my part...even using my OptiVisors it is hard to see.

Now trying to work thru the positioning of R26/R27...the parts placement photo appears different from the actual board/silk screening...gonna read the schematic/board traces and solder the parts that way.

73, Joe W2KJ

11007. Re: Dot on U11

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 19:11:06 UTC
From: Colin
Topic: 11006 Message: 11007

I agree that the dot is tiny.

You can probably use the text for alignment also, see the hi res image here - http://www.flickr.com/photos/24901892@N03/8643017189/

73 es gl

Colin, M0CGH

--- In AT_Sprint@yahoogroups.com, "Joseph Trombino, Jr" <jotrom@...> wrote:
>
> Many thanks for the responses regarding the positioning of U11.
>
> WOW!! The dot on the little can is very faint on my part...even using my OptiVisors it is hard to see.
>
> Now trying to work thru the positioning of R26/R27...the parts placement photo appears different from the actual board/silk screening...gonna read the schematic/board traces and solder the parts that way.
>
> 73, Joe W2KJ
>

11008. Re: Part Number for DPDT Switch (MTR)?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 20:15:34 UTC
From: k1thp
Topic: 11000 Message: 11008

Hi Steve,
Just wondering ... what bands did you chose for the second build? I chose 80/30 and got a new case for last years 40/20. It works great with the SOTA Tuner from Hendricks kits and is very light weight. BTW my wife KA1DTU and I met you at the Masscon event about 2 years ago. I was the guy that won the BuddiStick after your presentation.
73,
Dave K1THP

--- In AT_Sprint@yahoogroups.com, Steve Galchutt <qrp.wg0at@...> wrote:
>
> Thank you, Scott! This looks like the item ...donno about the make before break business? But I'll go with your hunch and order this one.
>
> Actually I'm using my new MTR2's beautiful case to install my old 20/40 in. I'll also probably rob one of MTR2's switches to fix up MTR1's broken one then when I get the courage to build my MTR2 I can worry about the missing switch ...Steve wGOAT
>
>
> On Apr 14, 2013, at 11:03 AM, Scott Zastoupil <szastoupil@...> wrote:
>
> >
> > Steve,
> >
> > I'm pretty sure it's this one. I looked at my MTR and the part has C&K stamped on the side. I also checked the pin spacing on my MTR compared to the datasheet.
> >
> > http://www.mouser.com/ProductDetail/CK-Components/0S202011MS2QN1/?qs=sGAEpiMZZMsqIr59i2oRclJQZtb8Z%2fwa3qNR%2fKy5T70%3d
> >
> > Mouser Part #:
> > 611-OS202011MS2QN1
> > Manufacturer Part #:
> > 0S202011MS2QN1
> > Manufacturer:
> > C&K Components
> >
> > JFYI, there is another switch with the "QS1" suffix in the PN instead of the "QN1" I listed above. The QS1 is the shorting version (make before break switch). I don't think you want the shorting one in that way that Steve designed the band switching circuitry.
> >
> > Scott, KB0KFX
> >
> >
> >
> >

> > From: steve_wg0at <qrp.wg0at@...>
> > To: AT_Sprint@yahoogroups.com
> > Sent: Sunday, April 14, 2013 9:37 AM
> > Subject: [AT_Sprint] Part Number for DPDT Switch (MTR)?
> >
> >
> > Does anyone happen to have or know the PN for tiny those through-hole slide switches used in the MTRs? I'm wanting to replace my broken one before I install it into another case.
> >
> > Thanks, Steve wGOAT
> >
> >
> >
> >
> >
>

11009. U9 Orientation - Double Checking - s/n 248.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 20:26:08 UTC
From: pswarman
Topic: 11009 Message: 11009

Could someone please confirm to me the correct orientation of U9. I've seen the manual note about it being upside down (using the letters on the chip), but the layout diagram on page 7 shows CC5R the other way up. The dot on the chip, if I'm seeing it correctly, is so small that I'm uncertain it really is one.

I've started to solder the chip using the orientation on page 7 but I've stopped after doing a couple of pins to get confirmation from the group.

Many thanks in advance.
Paul, G0odp, Dorset, UK

11010. Re: How to enlarge and print an image or selected text in Adobe Reader

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 20:37:05 UTC
From: k1thp
Topic: 10970 Message: 11010

Hi Brian,
Are you sure about your MTR sn? I have MTR sn 119 from the first build.
BTW it works great!
73,
Dave K1THP
--- In AT_Sprint@yahoogroups.com, "c6alk" <K7RE@...> wrote:
>
> I decided that I needed larger images of the MTR board to better build the unit. Here is, in case folks don't already know, how to enlarge and print those, or any other, images in Adobe Reader (.PDF files). I copied this directly from the Adobe Web site.
>
> How to enlarge and print an image or selected text in Adobe Reader:
>
> 1.) Open the PDF in Adobe Reader or Adobe Acrobat.
>
> 2.) (Acrobat X/Reader X) Choose Edit > Take A Snapshot.
> (Acrobat 9/Reader 9) Choose Tools > Select & Zoom > Snapshot Tool.
>
> 3.) Drag a rectangle around the area you want to print.
>
> 4.) Choose File > Print.
>
> 5.) Make sure that the Selected Graphic option is selected in the Print Range
>
> area of the Print dialog box.
>
>
> 6.) (Optional) To enlarge the selected text or graphic to fit the sheet of paper,
>
> choose Fit To Printable Area from the Page Scaling pop-up menu. Note: Enlarging
>
> the area reduces the printed resolution.
>
>
> 7.) Click OK or Print.
>
> Brian K7RE MTR # 119
>

11011. Re: U9 Orientation - Double Checking - s/n 248.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 20:47:45 UTC
From: jgaffke
Topic: 11009 Message: 11011

The dot on the part for U9 should agree with the dot in the silk screen of the board. Yes, that CC5R on page 7 is upside down, the text of the reference designators in the drawings from the manual are unfortunately pretty much arbitrary. Use an ohm meter to find a ground pin if you have any doubts. The manufacturer's data sheet for any part will show the correct pin numbering, they almost always count up going counter clockwise from pin 1.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "pswarman" <pswarman@...> wrote:
> Could someone please confirm to me the correct orientation of U9

11012. Re: U9 Orientation - Double Checking - s/n 248.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 21:00:58 UTC
From: pswarman
Topic: 11009 Message: 11012

Jerry, thanks so much for that, I'll get on with putting the chip the CORRECT way round!
Have a great week.
Paul

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> The dot on the part for U9 should agree with the dot in the silk screen of the board.
Yes, that CC5R on page 7 is upside down, the text of the reference designators in the drawings from the manual are unfortunately pretty much arbitrary.

11013. Re: How to enlarge and print an image or selected text in Adobe Reader

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 23:59:27 UTC
From: n1rx
Topic: 10970 Message: 11013

Many people have been incorrectly stating their second-run MTR serial numbers. What I have seen leads me to believe they are actually posting their second-run _order_ numbers. The serial number is printed on the paper sheet inside the parts bag.
73,
Bruce, N1RX
MTR #69 (1st run)
MTR #168 (2nd run)

--- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
>
>
> Hi Brian,
> Are you sure about your MTR sn? I have MTR sn 119 from the first build.
> BTW it works great!
> 73,
> Dave K1THP

11014. Re: Locks in TX after pwr up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 00:11:40 UTC
From: bill_w4zv
Topic: 8405 Message: 11014

My ATS-3 (original...not A, B, etc) has worked flawlessly since 2006. Yesterday during a SOTA activation it displayed the same symptoms as the post below from the February 2012 archives. KA2CAQ never got a reply that I could find but has anyone else seen anything like this?

Power plug inserted.
"ATS-2" announced (for 20m module)
Continuous dits until power plug is pulled.

TU for any advice or suggestions! (I fear a processor problem).

73, Bill W4ZV

--- In AT_Sprint@yahoogroups.com, walterp102@... wrote:
>
>
> Hello Group
>
> I just started having this problem with my ATS3a, I was wondering if
> anyone in the group could help me. Bare in mind I am not the sharpest tool in
> the shed!
>
> THE PROBLEM: Upon power up the rig announces the start freq and than goes
> into transmit.
>
> If a keyer is plugged in, the rig continuously
> sends dits.
>
> If a straight key is in place than the radio
> sends a constant carrier.
>
> Any ideas as to what is going on here? Has anybody experienced this on
> their ATS-3A The only way to stop the above is to off the power. Removing the
> keys has no affect.
>
> Any suggestions?
>
> Tnx
>
> Walter KA2CAQ
>

11015. Re: [AT_Sprint] Re: Locks in TX after pwr up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 00:18:22 UTC
From: Frank Skinner
Topic: 8405 Message: 11015

Bill, I had this problem with my ATS4b and what had happened is the paddle jack had rotated slightly in the case and when the radio got to hot (sun, use etc) it was just enough to short the wires against the case casing a string of dots until the power plug was pulled. I opened the case, moved the paddle jack a bit and all was well.

I hope it is that simple or you as well.

Frank
K0JQZ

Sent from my iPad

On Apr 14, 2013, at 6:11 PM, "bill_w4zv" <btippett@...> wrote:

> My ATS-3 (original...not A, B, etc) has worked flawlessly since 2006. Yesterday during a SOTA activation it displayed the same symptoms as the post below from the February 2012 archives. KA2CAQ never got a reply that I could find but has anyone else seen anything like this?
>
> Power plug inserted.
> "ATS-2" announced (for 20m module)
> Continuous dits until power plug is pulled.
>
> TU for any advice or suggestions! (I fear a processor problem).
>
> 73, Bill W4ZV
>
> --- In AT_Sprint@yahoogroups.com, walterp102@... wrote:
> >
> >
> > Hello Group
> >
> > I just started having this problem with my ATS3a, I was wondering if
> > anyone in the group could help me. Bare in mind I am not the sharpest tool in
> > the shed!
> >
> > THE PROBLEM: Upon power up the rig announces the start freq and than goes
> > into transmit.
> >
> > If a keyer is plugged in, the rig continuously
> > sends dits.
> >
> > If a straight key is in place than the radio
> > sends a constant carrier.
> >
> > Any ideas as to what is going on here? Has anybody experienced this on

> > their ATS-3A The only way to stop the above is to off the power. Removing the
> > keys has no affect.
> >
> > Any suggestions?
> >
> > Tnx
> >
> > Walter KA2CAQ
> >
>
>

11016. RE: [AT_Sprint] Re: Locks in TX after pwr up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 00:29:41 UTC
From: Dale Putnam
Topic: 8405 Message: 11016

Hi Bill, Frank has seen it.. that piece of it.. if the nut on the jack works a tad loose.. the jack shifts and shorts.. The other option that may happen, is the jack gets broken, most of those jacks are "see in" or have a window to the innards.. close watching will show if it works like the audio jack... this may become helpful.. IF.. after removing the top, the same symptoms occur.Good Luck!!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: f_skinner@...
Date: Sun, 14 Apr 2013 18:18:22 -0600
Subject: Re: [AT_Sprint] Re: Locks in TX after pwr up

Bill, I had this problem with my ATS4b and what had happened is the paddle jack had rotated slightly in the case and when the radio got to hot (sun, use etc) it was just enough to short the wires against the case casing a string of dots until the power plug was pulled. I opened the case, moved the paddle jack a bit and all was well.
I hope it is that simple or you as well.
FrankK0JQZ
Sent from my iPad
On Apr 14, 2013, at 6:11 PM, "bill_w4zv" <btippett@....edu> wrote:

My ATS-3 (original...not A, B, etc) has worked flawlessly since 2006. Yesterday during a SOTA activation it displayed the same symptoms as the post below from the February 2012 archives. KA2CAQ never got a reply that I could find but has anyone else seen anything like this?

Power plug inserted.

"ATS-2" announced (for 20m module)

Continuous dits until power plug is pulled.

TU for any advice or suggestions! (I fear a processor problem).

73, Bill W4ZV

--- In AT_Sprint@yahoogroups.com, walterp102@... wrote:

>

>

> Hello Group

>

> I just started having this problem with my ATS3a, I was wondering if

> anyone in the group could help me. Bare in mind I am not the sharpest tool in

> the shed!

>

> THE PROBLEM: Upon power up the rig announces the start freq and than goes

> into transmit.

>

> If a keyer is plugged in, the rig continuously

> sends dits.

>

> If a straight key is in place than the radio

> sends a constant carrier.

>

> Any ideas as to what is going on here? Has anybody experienced this on

> their ATS-3A The only way to stop the above is to off the power. Removing the

> keys has no affect.

>

> Any suggestions?

>

> Tnx

>

> Walter KA2CAQ

>

11017. Re: Locks in TX after pwr up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 01:29:52 UTC
From: bill_w4zv
Topic: 8405 Message: 11017

I don't think it's a jack or connection problem. The ATS-3 jacks are soldered to the board and do not use nuts. I no longer use the key jack since I have an on-board paddle attached to the ATS case with leads tack soldered to the jack pins internally (so there's one less jack to fail with insertions). I checked the resistance from pins 8 (dash) and 9 (dot) to the MPS430 and both read the identical 47k. Closing the paddle results in shorts at the appropriate MPS430 input pins. So I'm afraid the problem may be internal to the processor.

Any other ideas? Steve?

73, Bill W4ZV

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
> Hi Bill, Frank has seen it.. that piece of it.. if the nut on the jack works a tad loose.. the jack shifts and shorts.. The other option that may happen, is the jack gets broken, most of those jacks are "see in" or have a window to the innards.. close watching will show if it works like the audio jack... this may become helpful.. IF.. after removing the top, the same symptoms occur.Good Luck!!
>
> Have a great day,
>
>
> --... ...--
> Dale - WC7S in Wy
>
>
>
> To: AT_Sprint@yahoogroups.com
> From: f_skinner@...
> Date: Sun, 14 Apr 2013 18:18:22 -0600
> Subject: Re: [AT_Sprint] Re: Locks in TX after pwr up
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> Bill, I had this problem with my ATS4b and what had happened is the paddle jack had rotated slightly in the case and when the radio got to hot (sun, use etc) it was just enough to short the wires against the case casing a string of dots until the power plug was pulled. I opened the case, moved the paddle jack a bit and all was well.
> I hope it is that simple or you as well.
> FrankK0JQZ
> Sent from my iPad
> On Apr 14, 2013, at 6:11 PM, "bill_w4zv" <btippett@...> wrote:
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>
> My ATS-3 (original...not A, B, etc) has worked flawlessly since 2006. Yesterday during a SOTA activation it displayed the same symptoms as the post below from the February 2012 archives. KA2CAQ never got a reply that I could find but has anyone else seen anything like this?
>
>
>
> Power plug inserted.

>
> "ATS-2" announced (for 20m module)
>
> Continuous dits until power plug is pulled.
>
>
>
> TU for any advice or suggestions! (I fear a processor problem).
>
>
>
> 73, Bill W4ZV
>
>
>
> --- In AT_Sprint@yahoogroups.com, walterp102@ wrote:
>
> >
>
> >
>
> > Hello Group
>
> >
>
> > I just started having this problem with my ATS3a, I was wondering if
>
> > anyone in the group could help me. Bare in mind I am not the sharpest tool in
>
> > the shed!
>
> >
>
> > THE PROBLEM: Upon power up the rig announces the start freq and than goes
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> >
>
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> >

>
> > Any ideas as to what is going on here? Has anybody experienced this on
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> > their ATS-3A The only way to stop the above is to off the power. Removing the
>
> > keys has no affect.
>
> >
>
> > Any suggestions?
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> >
>
> > Tnx
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> >
>
> > Walter KA2CAQ
>
> >
>

11018. Lost XTAL

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-14 20:33:40 UTC
From: ke7ngo11
Topic: 11018 Message: 11018

I lost one if my 4.5912 MHz HC-49/US XTAL, MATCHED. Does anyone have a spare or can someone direct me to where i can buy one? I am a bit concerned with the meaning of MACHED. Is this something that will effect me in ordering one?

de clayton, ke7ngo

11019. Re: Locks in TX after pwr up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 02:14:35 UTC
From: jgaffke
Topic: 8405 Message: 11019

Bill,
I assume you measured that 47K from processor pin to ground (actually the 3.3v rail, but ground is close enough when unit is powered down) on each of those two signals. Look directly on those two processor pins with a voltmeter after power up, should see 3 volts. Power down and check all the way around the processor for cold solder joints, push them with an Exacto blade to see if they move, maybe hit them again with a soldering iron just in case. If none of that helps (and you see 3 volts on both processor pins), you may have a blown input buffer on the dot pin and the chip needs to be replaced and programmed. Or you might possibly have a firmware bit that winked out and you just need to reprogram the MSP430, that's considerably less likely. (Good luck finding a PC with a parallel port.)
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@...> wrote:
> I don't think it's a jack or connection problem.

11020. Re: Lost XTAL

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 02:17:50 UTC
From: jgaffke
Topic: 11018 Message: 11020

--- In AT_Sprint@yahoogroups.com, "ke7ngo11" <wc.heilman@...> wrote:
>
> I lost one if my 4.5912 MHz HC-49/US XTAL, MATCHED. Does anyone have a spare or can someone direct me to where i can buy one? I am a bit concerned with the meaning of MACHED. Is this something that will effect me in ordering one?
>
> de clayton, ke7ngo
>

11021. Re: [AT_Sprint] Re: Lost XTAL

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 02:27:17 UTC
From: Steven Weber
Topic: 11018 Message: 11021

How can you loose a crystal? Use an odd one for the BFO, as that one doesn't need to be matched. Matched means I sorted 500 crystals into groups spaced 10Hz appart. A minimum of about 25 crystals are needed to match them that close.

Sent from my Kindle Fire

From: jgaffke <jgaffke@...>
Sent: Sun Apr 14 22:17:50 EDT 2013
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Lost XTAL

--- In AT_Sprint@yahoogroups.com, "ke7ngo11" <wc.heilman@...> wrote:
>
> I lost one if my 4.5912 MHz HC-49/US XTAL, MATCHED. Does anyone have a spare or can someone direct me to where i can buy one? I am a bit concerned with the meaning of MACHED. Is this something that will effect me in ordering one?
>
> de clayton, ke7ngo
>

Yahoo! Groups Links

11022. RE: [AT_Sprint] Re: Lost XTAL

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 02:37:25 UTC
From: Dale Putnam
Topic: 11018 Message: 11022

Them little critters may only have two legs... but they can move 'em right quick!!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Sun, 14 Apr 2013 22:27:17 -0400
Subject: Re: [AT_Sprint] Re: Lost XTAL

How can you loose a crystal? Use an odd one for the BFO, as that one doesn't need to be matched. Matched means I sorted 500 crystals into groups spaced 10Hz appart. A minimum of about 25 crystals are needed to match them that close.

Sent from my Kindle Fire

From: jgaffke <jgaffke@...>

Sent: Sun Apr 14 22:17:50 EDT 2013

To: AT_Sprint@yahoogroups.com

Subject: [AT_Sprint] Re: Lost XTAL

--- In AT_Sprint@yahoogroups.com, "ke7ngo11" <wc.heilman@...> wrote:
>
> I lost one if my 4.5912 MHz HC-49/US XTAL, MATCHED. Does anyone have a spare or can someone direct me to where i can buy one? I am a bit concerned with the meaning of MACHED. Is this something that will effect me in ordering one?
>
> de clayton, ke7ngo
>

Yahoo! Groups Links

11023. Re: How to enlarge and print an image or selected text in Adobe Reader

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 02:42:58 UTC
From: c6alk
Topic: 10970 Message: 11023

Yep, I had the SN wrong, I though that the ORDER number was the same, my mistake! Thanks for letting me know, I am #215.

Brian K7RE

--- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
>
>
> Hi Brian,
> Are you sure about your MTR sn? I have MTR sn 119 from the first build.
> BTW it works great!
> 73,
> Dave K1THP
> --- In AT_Sprint@yahoogroups.com, "c6alk" <K7RE@> wrote:
> >
> > I decided that I needed larger images of the MTR board to better build the unit. Here is, in case folks don't already know, how to enlarge and print those, or any other, images in Adobe Reader (.PDF files). I copied this directly from the Adobe Web site.
> >
> > How to enlarge and print an image or selected text in Adobe Reader:
> >
> > 1.) Open the PDF in Adobe Reader or Adobe Acrobat.
> >
> > 2.) (Acrobat X/Reader X) Choose Edit > Take A Snapshot.
> > (Acrobat 9/Reader 9) Choose Tools > Select & Zoom > Snapshot Tool.
> >
> > 3.) Drag a rectangle around the area you want to print.
> >
> > 4.) Choose File > Print.
> >
> > 5.) Make sure that the Selected Graphic option is selected in the Print Range
> >
> > area of the Print dialog box.
> >
> >
> > 6.) (Optional) To enlarge the selected text or graphic to fit the sheet of paper,
> >
> > choose Fit To Printable Area from the Page Scaling pop-up menu. Note: Enlarging
> >
> > the area reduces the printed resolution.
> >
> >
> > 7.) Click OK or Print.
> >
> > Brian K7RE MTR # 119

> >
>

11024. Re: Locks in TX after pwr up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 09:28:03 UTC
From: bill_w4zv
Topic: 8405 Message: 11024

Yes the power-off resistance was measured from the processor pins to ground. I've also looked carefully around the processor and retouched pin 9 (dot side) with a soldering iron. With power-on I have 3.5V on the dash side but only 185 mV on the dot side. Since the pins look identical with power-off (i.e. no short from the processor pins to paddle input), I suspect the processor.

Meanwhile I got a note from Walter KA2CAQ who had the identical issue on his ATS-3A and he had to return it to Steve to replace his processor.

Unless someone has any better ideas I'm going to send it back to Steve so it's in his queue when he returns.

73, Bill W4ZV

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Bill,
> I assume you measured that 47K from processor pin to ground (actually the 3.3v rail, but ground is close enough when unit is powered down) on each of those two signals. Look directly on those two processor pins with a voltmeter after power up, should see 3 volts. Power down and check all the way around the processor for cold solder joints, push them with an Exacto blade to see if they move, maybe hit them again with a soldering iron just in case. If none of that helps (and you see 3 volts on both processor pins), you may have a blown input buffer on the dot pin and the chip needs to be replaced and programmed. Or you might possibly have a firmware bit that winked out and you just need to reprogram the MSP430, that's considerably less likely. (Good luck finding a PC with a parallel port.)
> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@> wrote:
> > I don't think it's a jack or connection problem.
>

11025. Re: Lost XTAL

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 12:06:22 UTC
From: ohwenzelph
Topic: 11018 Message: 11025

Wow! NICE! One of the things that makes these the best kits in the world. Helps explain why you say after putting it together "Hey, this thing works pretty darn well.."

Steven Weber <steve.kd1jv@...> wrote:

>Matched means I sorted 500 crystals into groups spaced 10Hz appart.

P.S.
Steven Weber <steve.kd1jv@...> wrote:

> How can you loose a crystal?

Well, in part, lots of practice, and also its not the loosing so much thats hard as the finding it again that makes it difficult....

jt aa1of

11026. Re: [AT_Sprint] Re: Locks in TX after pwr up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 13:08:32 UTC
From: Steven Weber
Topic: 8405 Message: 11026

Please don't send it now. I didn't put my mail on hold. I have a big mail box but not that big.

Sent from my Kindle Fire

From: bill_w4zv <btippett@...>
Sent: Mon Apr 15 05:28:03 EDT 2013
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Locks in TX after pwr up

Yes the power-off resistance was measured from the processor pins to ground. I've also looked carefully around the processor and retouched pin 9 (dot side) with a soldering iron. With power-on I have 3.5V on the dash side but only 185 mV on the dot side. Since the pins look identical with power-off (i.e. no short from the processor pins to paddle input), I suspect the processor.

Meanwhile I got a note from Walter KA2CAQ who had the identical issue on his ATS-3A and he had to return it to Steve to replace his processor.

Unless someone has any better ideas I'm going to send it back to Steve so it's in his queue when he returns.

73, Bill W4ZV

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Bill,
> I assume you measured that 47K from processor pin to ground (actually the 3.3v rail, but ground is close enough when unit is powered down) on each of those two signals. Look directly on those two processor pins with a voltmeter after power up, should see 3 volts. Power down and check all the way around the processor for cold solder joints, push them with an Exacto blade to see if they move, maybe hit them again with a soldering iron just in case. If none of that helps (and you see 3 volts on both processor pins), you may have a blown input buffer on the dot pin and the chip needs to be replaced and programmed. Or you might possibly have a firmware bit that winked out and you just need to reprogram the MSP430, that's considerably less likely. (Good luck finding a PC with a parallel port.)
> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@> wrote:
> > I don't think it's a jack or connection problem.
>

Yahoo! Groups Links

11027. Re: Locks in TX after pwr up

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 15:42:23 UTC
From: jgaffke
Topic: 8405 Message: 11027

One last suggestion before replacing the processor.
Try adding a 1K resistor from the dot line at the paddle
to the 3.3v power supply rail. With power off, measure
from the dot pin at the processor to 3.3v rail, should see
around 1k. Power it up, maybe the 3ma through that 1k
will be enough to overcome damage done to the IOBUF
of the MSP430 through static discharge or whatever.
If you are lucky.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, Steven Weber <steve.kd1jv@...> wrote:
>
> Please don't send it now. I didn't put my mail on hold. I have a big mail box but not that big.
>
> Sent from my Kindle Fire
>
>
>
> _____
> From: bill_w4zv <btippett@...>
> Sent: Mon Apr 15 05:28:03 EDT 2013
> To: AT_Sprint@yahoogroups.com
> Subject: [AT_Sprint] Re: Locks in TX after pwr up
>
>
> Yes the power-off resistance was measured from the processor pins to ground. I've also looked carefully around the processor and retouched pin 9 (dot side) with a soldering iron. With power-on I have 3.5V on the dash side but only 185 mV on the dot side. Since the pins look identical with power-off (i.e. no short from the processor pins to paddle input), I suspect the processor.
>
> Meanwhile I got a note from Walter KA2CAQ who had the identical issue on his ATS-3A and he had to return it to Steve to replace his processor.
>
> Unless someone has any better ideas I'm going to send it back to Steve so it's in his queue when he returns.
>
> 73, Bill W4ZV
>
> --- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@> wrote:
> >
> > Bill,
> > I assume you measured that 47K from processor pin to ground (actually the 3.3v rail, but ground is close enough when unit is powered down) on each of those two signals. Look

directly on those two processor pins with a voltmeter after power up, should see 3 volts. Power down and check all the way around the processor for cold solder joints, push them with an Exacto blade to see if they move, maybe hit them again with a soldering iron just in case. If none of that helps (and you see 3 volts on both processor pins), you may have a blown input buffer on the dot pin and the chip needs to be replaced and programmed. Or you might possibly have a firmware bit that winked out and you just need to reprogram the MSP430, that's considerably less likely. (Good luck finding a PC with a parallel port.)
> > Jerry, KE7ER
> >
> > --- In AT_Sprint@yahoogroups.com, "bill_w4zv" <btippett@> wrote:
> > > I don't think it's a jack or connection problem.
> >
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>
> Yahoo! Groups Links
>

11028. replacement capacitors- need info

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 21:47:08 UTC
From: tim_g4
Topic: 11028 Message: 11028

Hi All,
This troubleshoot my MTR. I'm going to try replacing some suspect capacitors next, but I don't know the voltage rating or tolerance of the ones used. I know its 0603 size and I need some 100pf's (violet) and .01uf's (blue).

For the .01's, I was looking here http://www.digikey.com/scripts/dksearch/dksus.dll?FV=fff40002%2Cfff8000b%2C340042&k=.01+capacitor&mnonly=0&newproducts=0&ColumnSort=14&page=1&stock=0&pbfree=0&rohs=0&quantity=0&ptm=0&fid=0

Look about right? Still need tolerance and voltage, though.

Thanks for the help,

Tim
K6TW

11029. Re: replacement capacitors- need info

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 22:40:08 UTC
From: jgaffke
Topic: 11028 Message: 11029

I think you want 0805's not 0603's.
The 25v 5% parts are good enough in most spots.
Transmit filters might best be 100v 1% parts.

Maybe you can borrow a capacitance meter long enough
to verify the ones you already have.
Or, post the symptoms, we might be able to help
narrow things down.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "tim_g4" <tim@...> wrote:
> its 0603 size and I need some 100pf's (violet) and .01uf's (blue).

11030. Re: replacement capacitors- need info

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-15 23:37:07 UTC
From: jgaffke
Topic: 11028 Message: 11030

Voltage rating at C48, C69, C70 might want to be 100v as well,
I'm not sure I fully understand what all might happen there,
especially with a high swr.

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> The 25v 5% parts are good enough in most spots.

11031. Re: How to check for key clicks

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 09:16:52 UTC
From: Yannick
Topic: 10997 Message: 11031

Hi,

This is a follow-up to my last questions.
With some advices from Jerry KE7ER I successfully had a measurement of the MTR keying shape and how my RX/TX Amp switching circuit was behaving.

First, this is not something new but the MTR has a very very nice keying waveform.
I uploaded pictures here :
http://groups.yahoo.com/group/AT_Sprint/photos/album/1197486776/pic/list

Raising and falling time are 6ms and very soft. Could not dream about better. Perhaps a bit long for HSCW, but this is not what the MTR was designed for.

The bad news is that my amp relay is way to small. I have uploaded a pciture to show the "bad example" but the shot is not as good as the other one.
Anyhow, you can see the beginning of the raising slope, then a blank (relay switching) then a very high level signal with a rounded edge (end of the raising slope).
That means my sensing circuit needs 2ms to detect the RF, then the relay 2ms to switch and I only have the last 2ms of the raising edge...

That's bad and that means key clicks. I will need to replace the relay as soon as I can find one beter locally.
All in all, I can live with it because "hot switching" at 55W is not that bad and I will not do QSK.
Looking at several QST reviews, that's also better that many commercial transceivers, so...

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

--- In AT_Sprint@yahoogroups.com, "XV4Y (Yan)" <xv4y@...> wrote:
>
> Hi Jerry,
>
> Thanks for confirming me that is possible.
> That's what I was doing, or at least I thought so. The trigger was in AUTO.
> I tried Q4 too but did not want to fiddle too much with the MTR itself making a short or so.
> I must admit not having the oscilloscope user's manual I am sometime lost in the trigger settings.
>
> I will try again later taking it step by step.
>
> 73,

> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
>
> Le 14 avr. 2013 à 12:16, jgaffke a écrit :
>
> > Yannick,
> >
> > Triggering on the keyer paddle will only allow you to see the
> > very first rising edge. You would do much better triggering
> > on the gate of Q4 (a square wave between 0 and 3 volts)
> > while sending a string of dots with the paddle.
> >
> > What did not work as expected?
> > I'd guess you are having trouble getting the scope to trigger
> > properly. Triggering mode should be set to "normal" on "rising
> > edge", and adjust the triggering level so it is in the middle of
> > the triggering signal. Turn on the display for channel 2 while
> > adjusting the trigger so you can see what you are doing.
> >
> > That's a 100 MHz four channel scope. Should be a very fine
> > choice for work around HF radio.
> >
> > You're on the right track, triggering on the keying line
> > while observing the RF output. Should see the signal envelope
> > rise from zero to full power in about 5 milliseconds. Set the
> > horizontal sweep rate to around 1 millisecond/div.
> > Since the relay won't turn on at zero power there will be an
> > initial step in the envelope when it first turns on. Should be
> > OK if it's under a watt or so. You also want to check the
> > falling edge of the signal envelope (trigger on Q4 gate falling
> > edge) should decay back to zero in 5 milliseconds. The MTR
> > sends out a very nice trapezoid.
> >
> > Jerry, KE7ER
> >
> > --- In AT_Sprint@yahoogroups.com, XV4Y <xv4y@> wrote:
> >> ...I would like to see if my RX/TX relay is switching fast enough...
> >> I only have in hands an analog scope Iwatsu SS-6122.
> >> I have tried to put the RF signal to Channel 1 and my paddle to
> >> channel 2, driving the Trigger with channel 2 but it does not
> >> work as expected.
> >
> >
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> > ------------------------------------
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> > Yahoo! Groups Links
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11032. MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 14:20:12 UTC
From: rasteenb
Topic: 11032 Message: 11032

I just finished the MTR and did the smoke test.
No joy.
I get a thump in the headphones when I plug the power in, but that's it.
LED isn't lit. No tones.

I checked the 3.3 and 5V regulators and they're providing the correct voltage.
I checked the other recommended connections in the manual and they appear O.K.

Voltages on U10 (MPS430) are:

P1=0
P2=3.3
P3=2.08* (side tone) Should be 0 according to chart
P4=0
P5=0* (OSC) Should be 2.7
P6=0* (OSC) Should be 1.7
P7-P14=2.5* (Tune, Dash, Dot, 7-SEG) Should be 3.3

P15-P18=2.0* (7-SEG) Should be 3.3
P19-P20=1.0
P21-P23, P26-P8=1.4* (RIT,MENU, Tune Up; DDS, DDS, Mute) Should be 3.3
P23-P25=0

I checked the connections to the crystal and they're good.

Any ideas?

Cheers,
Rob KA8JBY

11033. Re: [AT_Sprint] MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 14:33:43 UTC
From: Colin Tuckley
Topic: 11032 Message: 11033

Quoting rasteenb <rasteenb@...>:

> I just finished the MTR and did the smoke test.
> No joy.
> I get a thump in the headphones when I plug the power in, but that's it.
> LED isn't lit. No tones.

> Voltages on U10 (MPS430) are:

> P7-P14=2.5* (Tune, Dash, Dot, 7-SEG) Should be 3.3

P7 is the RST (Reset) pin, if it's not at or close to 3v3 then the
processor won't be running!

Colin G8TMV

11034. Re: MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 15:08:21 UTC
From: William
Topic: 11032 Message: 11034

I just finished s/n 086. I thought that I did a good job soldering the parts (used solder paste). However, before I got it working I discovered one solderbridge and 3 cold soldered joints that looked good to my inspection.
I recommend getting a jewelers loope and examining every single solder joint for shorts. After that use an iron and resolder EVERY joint. At the toroids be sure you have a miniscus of solder on both sides of the PCB.
Recheck your resistor values and the orientation of the chips.
I was sure that I had a bad part but this is what worked for me.

Bill, WV1N

--- In AT_Sprint@yahoogroups.com, "rasteenb" <rasteenb@...> wrote:
>
> I just finished the MTR and did the smoke test.
> No joy.
> I get a thump in the headphones when I plug the power in, but that's it.
> LED isn't lit. No tones.
>
> I checked the 3.3 and 5V regulators and they're providing the correct
> voltage.
> I checked the other recommended connections in the manual and they
> appear O.K.
>
> Voltages on U10 (MPS430) are:
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> P1=0
> P2=3.3
> P3=2.08* (side tone) Should be 0 according to chart
> P4=0
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> P6=0* (OSC) Should be 1.7
> P7-P14=2.5* (Tune, Dash, Dot, 7-SEG) Should be 3.3
>
> P15-P18=2.0* (7-SEG) Should be 3.3
> P19-P20=1.0
> P21-P23, P26-P8=1.4* (RIT,MENU, Tune Up; DDS, DDS, Mute) Should be 3.3
> P23-P25=0
>
> I checked the connections to the crystal and they're good.
>
> Any ideas?
>
> Cheers,
> Rob KA8JBY
>

11035. RE: [AT_Sprint] MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 15:05:50 UTC
From: <ve4jwc@...>
Topic: 11032 Message: 11035

How much current is the rig drawing? If it is above 35ma then you may have a short somewhere - I would get out the magnifier and check all the solder connections, especially the itty bitty ones... I know I had to go back and clean up a few "size of a human hair" type solder bridges that I didn't notice on first glance.
John - VE4JWC

To: AT_Sprint@yahoogroups.com
From: rasteenb@...
Date: Tue, 16 Apr 2013 14:20:12 +0000
Subject: [AT_Sprint] MTR DEAD - no LED, no tones, processor issue?

I just finished the MTR and did the smoke test.
No joy.
I get a thump in the headphones when I plug the power in, but that's it.
LED isn't lit. No tones.

I checked the 3.3 and 5V regulators and they're providing the correct voltage.
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Voltages on U10 (MPS430) are:

P1=0
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P3=2.08* (side tone) Should be 0 according to chart
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P7-P14=2.5* (Tune, Dash, Dot, 7-SEG) Should be 3.3

P15-P18=2.0* (7-SEG) Should be 3.3
P19-P20=1.0
P21-P23, P26-P8=1.4* (RIT,MENU, Tune Up; DDS, DDS, Mute) Should be 3.3
P23-P25=0

I checked the connections to the crystal and they're good.

Any ideas?

Cheers,
Rob KA8JBY

11036. Any requests for a demonstration video? And some initial impressions.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 15:54:23 UTC
From: mdweezer
Topic: 11036 Message: 11036

I just received my MTR back from W0EA who did a wonderful job on my MTR build. It's a thing of beauty for sure!

I was going to capture a nice HD video of it in action. Any requests? Given the feature set, I can likely step through each feature and show it off. But if there's something specific someone can think of - I'll do my best to capture it.

As for my initial impressions - I powered it up with an old 9V I had on my desk. The MTR showed 8.1V. I tuned into the 4pm W1AW CW practice transmission and was quite floored at how quiet the RX is. I had my KX3 turned on as well and the MTR was a bit more quiet - though I contribute a part of that to the poor speaker on the KX3. But otherwise, very sharp tuning and filtering on the MTR. A quick CQ into a random wire (through a ZM-2 ATU) with the MTR showing 7.8V got me a handfull of spots on RBN. A quick check of power out via my dummy load showed around 1.5W.

The single digit display is very bright and looks great, and the sidetone is quite pleasant. I'm using a mini USB powered capsule shaped speaker.

I'm debating swapping out the RCA connector for a BNC, though for now an adapter does the trick. I can definitely see the desire for a power switch of some sort with an internal 9V battery. The barrel connector is pretty tough - no chance of it slipping out.

Features like DFE work as one would expect and allow for very fast QSY'ing. Everything becomes second nature very quickly as you begin using it.

That's all I've got for now. I hope someone finds this useful or enough to hold them off until they get theirs built and on the air.

73,
-Matt, W2MDW

11037. Re: Any requests for a demonstration video? And some initial impressions.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 16:57:47 UTC
From: f4gha
Topic: 11036 Message: 11037

Hi Matt,

I'm interested by the insides parts of the MTR. And a view for the rest of free space inside the box. Because I'm looking for add an SWR Led indicator inside the MTR.

I'm asking you about that because I think I will not receive very soon my MTR, and I would like to order differents others components before he arrived.

Thanks ! :-))
73 from FY.
Loïc, FY8PE.

11038. Re: [AT_Sprint] Re: Any requests for a demonstration video? And some initial impressions.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 17:02:44 UTC
From: TJ Campie
Topic: 11036 Message: 11038

There's space for one, but the switch would have to be pretty small.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Apr 16, 2013 at 11:57 AM, f4gha <comax@...> wrote:

> **
>
>
> Hi Matt,
>
> I'm interested by the insides parts of the MTR. And a view for the rest of
> free space inside the box. Because I'm looking for add an SWR Led indicator
> inside the MTR.
>
> I'm asking you about that because I think I will not receive very soon my
> MTR, and I would like to order differents others components before he
> arrived.
>
> Thanks ! :-))
> 73 from FY.
> Loïc, FY8PE.
>
>
>

11039. Re: [AT_Sprint] Re: Any requests for a demonstration video? And some initial impressions.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 17:15:30 UTC
From: LFR
Topic: 11036 Message: 11039

Tnx TJ,

I was looking for a very small switch in all case. But I don't know if I will drill the box. Maybe I will remade the bottom part of the box in translucent plexiglass, it could be beautiful and drilling this one does not tear my heart.
The Matt's video will helps me to decide.

Loïc.

11040. Re: MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 17:59:27 UTC
From: rasteenb
Topic: 11032 Message: 11040

Thanks for the tips.

The rig is drawing 27ma.

I found one solder bridge so far on U3 (LM4808).

I checked the voltage at pin 7 (reset). It is indeed 2.5V and upstream, on the other side of R22, it's 3.3V.

I'll keep looking and re-soldering.

rob

--- In AT_Sprint@yahoogroups.com, "rasteenb" <rasteenb@...> wrote:
>
> I just finished the MTR and did the smoke test.
> No joy.
> I get a thump in the headphones when I plug the power in, but that's it.
> LED isn't lit. No tones.
>
> I checked the 3.3 and 5V regulators and they're providing the correct
> voltage.
> I checked the other recommended connections in the manual and they
> appear O.K.
>
> Voltages on U10 (MPS430) are:
>
> P1=0
> P2=3.3
> P3=2.08* (side tone) Should be 0 according to chart
> P4=0
> P5=0* (OSC) Should be 2.7
> P6=0* (OSC) Should be 1.7
> P7-P14=2.5* (Tune, Dash, Dot, 7-SEG) Should be 3.3
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> P15-P18=2.0* (7-SEG) Should be 3.3
> P19-P20=1.0
> P21-P23, P26-P8=1.4* (RIT,MENU, Tune Up; DDS, DDS, Mute) Should be 3.3
> P23-P25=0
>
> I checked the connections to the crystal and they're good.
>
> Any ideas?
>
> Cheers,
> Rob KA8JBY

>

11041. Toaster Oven

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 18:14:19 UTC
From: k4byf050431
Topic: 11041 Message: 11041

I tried a test run in my toaster oven with the suggested temperature and time scenario and had poor results. I used a scrap pc board with MG Chemicals Soldering Flux, No Clean Paste, 10ml syringe that I purchased from Mouser. Is this the wrong stuff???

11042. Re: [AT_Sprint] Toaster Oven

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 18:35:33 UTC
From: Michael Harnage
Topic: 11041 Message: 11042

Don't know the usage profile of what you bought, but best results can be had by using Kester Easy Profile 256. Cash Olsen is a great guy to get it from.

http://kd5ssj.com/solderpaste

mike/w1mt

>_____
> From: k4byf050431 <k4byf@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Tuesday, April 16, 2013 2:14 PM
>Subject: [AT_Sprint] Toaster Oven
>
>
>I tried a test run in my toaster oven with the suggested temperature and time scenario and had poor results. I used a scrap pc board with MG Chemicals Soldering Flux, No Clean Paste, 10ml syringe that I purchased from Mouser. Is this the wrong stuff???
>
>
>
>

11043. Re: [AT_Sprint] Toaster Oven

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 19:34:33 UTC
From: John D'Ausilio
Topic: 11041 Message: 11043

I believe you got the wrong stuff .. there's no solder in that, it's just flux paste! Go with Mike's suggestion, the 256 works great (I've been toasting boards for a couple years now)

de w1rt/john

On Tue, Apr 16, 2013 at 2:14 PM, k4byf050431 <k4byf@...> wrote:

> I tried a test run in my toaster oven with the suggested temperature and
> time scenario and had poor results. I used a scrap pc board with MG
> Chemicals Soldering Flux, No Clean Paste, 10ml syringe that I purchased
> from Mouser. Is this the wrong stuff???
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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11044. Should I Be Concerned.....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 19:42:01 UTC
From: Martin
Topic: 11044 Message: 11044

.....as I haven't yet received my MTR kit?

Best wishes
Martin
MI0CLP

11045. Re: MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 19:58:43 UTC
From: funcanuk38
Topic: 11032 Message: 11045

Colin...my first run MTR had no audio tone. Someone suggested taking my headphones and a couple of test leads.....hook one test lead to the phono plug and hook it to ground on PCB. Take the other test lead hooked to the phono plug and clip to a piece of component lead you've snipped off and use it as a probe. Touch it to the bottom of R28 and power up the MTR.... if the processor is working you'll hear a faint CW band enunciation in your phones. If you hear audio your problem is somewhere downstream in audio amp circuit which was my problem.
My LED display began to light on power up but quickly dimmed and went out looking like a short! My 9v battery had dropped to 6v with all my poking around looking for my problem and the MTR was shutting off! Whats your test battery voltage?
Good luck...the MTR is a great rig!

Mike VA6FUN

--- In AT_Sprint@yahoogroups.com, "rasteenb" <rasteenb@...> wrote:
>
> Thanks for the tips.
>
> The rig is drawing 27ma.
>
> I found one solder bridge so far on U3 (LM4808).
>
> I checked the voltage at pin 7 (reset). It is indeed 2.5V and upstream, on the other side of R22, it's 3.3V.
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> I'll keep looking and re-soldering.
>
> rob
>
>
> --- In AT_Sprint@yahoogroups.com, "rasteenb" <rasteenb@> wrote:
> >
> > I just finished the MTR and did the smoke test.
> > No joy.
> > I get a thump in the headphones when I plug the power in, but that's it.
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> > I checked the 3.3 and 5V regulators and they're providing the correct
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> > I checked the other recommended connections in the manual and they
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> >
> > Voltages on U10 (MPS430) are:
> >
> > P1=0

> > P2=3.3
> > P3=2.08* (side tone) Should be 0 according to chart
> > P4=0
> > P5=0* (OSC) Should be 2.7
> > P6=0* (OSC) Should be 1.7
> > P7-P14=2.5* (Tune, Dash, Dot, 7-SEG) Should be 3.3
> >
> > P15-P18=2.0* (7-SEG) Should be 3.3
> > P19-P20=1.0
> > P21-P23, P26-P8=1.4* (RIT,MENU, Tune Up; DDS, DDS, Mute) Should be 3.3
> > P23-P25=0
> >
> > I checked the connections to the crystal and they're good.
> >
> > Any ideas?
> >
> > Cheers,
> > Rob KA8JBY
> >
>

11046. Key Jack NOT Self Grounding

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 21:29:18 UTC
From: steve_wg0at
Topic: 11046 Message: 11046

Just an FYI ...be advised both the key jack and heahphone jack do not ground themselves when installed in new case. I installed my MTR1 in the new MTR2 case and wired everything up thinking "nah, I don't need to run an extra ground wire the chassis will take care of that" Wrong!

Not so. Donno if it's the paint job that insulates the jack's sleeve from ground or what? I had everything installed and fired the radio thinking I was through ...it wouldn't key and I heard no audio? Doh! Ohm'd the jacks and they were both ungrounded! installed a ground lead and everyone is happy!

http://tinyurl.com/d9qdxtl

Cheers, Steve/wGOAT

11047. Re: [AT_Sprint] Key Jack NOT Self Grounding

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-16 21:31:31 UTC
From: TJ Campie
Topic: 11046 Message: 11047

The antenna jack, however is. And if you've looked at the gen 2 board (at least the one I have seen) the ground connection for the antenna is masked over so you can't solder to it anyway. You could run a little wire from the standoff post to the ground on the RCA but in my testing it was not needed.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Tue, Apr 16, 2013 at 4:29 PM, steve_wg0at <qrp.wg0at@...> wrote:

> **
>
>
> Just an FYI ...be advised both the key jack and heahphone jack do not
> ground themselves when installed in new case. I installed my MTR1 in the
> new MTR2 case and wired everything up thinking "nah, I don't need to run an
> extra ground wire the chassis will take care of that" Wrong!
>
> Not so. Donno if it's the paint job that insulates the jack's sleeve from
> ground or what? I had everything installed and fired the radio thinking I
> was through ...it wouldn't key and I heard no audio? Doh! Ohm'd the jacks
> and they were both ungrounded! installed a ground lead and everyone is
> happy!
>
> http://tinyurl.com/d9qdxtl
>
> Cheers, Steve/wGOAT
>
>
>

11048. Re: [AT_Sprint] Key Jack NOT Self Grounding

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-17 07:00:27 UTC
From: Colin Tuckley
Topic: 11046 Message: 11048

Quoting TJ Campie <tom.campie@...>:

> if you've looked at the gen 2 board (at
> least the one I have seen) the ground connection for the antenna is masked
> over so you can't solder to it anyway

Steve mentioned that this was an error and you need to scrape the masking off.

Colin G8TMV

11049. Re: [AT_Sprint] Toaster Oven

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-17 10:23:33 UTC
From: <k4byf@...>
Topic: 11041 Message: 11049

Thanks for the info, I'll order the 256.
---- Michael Harnage <w1mt@...> wrote:
> Don't know the usage profile of what you bought, but best results can be had by using Kester Easy Profile 256. Cash Olsen is a great guy to get it from.
>
> http://kd5ssj.com/solderpaste
>
> mike/w1mt
>
>
>
>
> >_____
> > From: k4byf050431 <k4byf@...>
> >To: AT_Sprint@yahoogroups.com
> >Sent: Tuesday, April 16, 2013 2:14 PM
> >Subject: [AT_Sprint] Toaster Oven
> >
> >
> >I tried a test run in my toaster oven with the suggested temperature and time scenario and had poor results. I used a scrap pc board with MG Chemicals Soldering Flux, No Clean Paste, 10ml syringe that I purchased from Mouser. Is this the wrong stuff???
> >
> >
> >
> >

11050. Re: MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-17 15:56:14 UTC
From: funcanuk38
Topic: 11032 Message: 11050

Rob....thought I'd mention one more tip...perhaps it's been mentioned already? If you are lacking in magnification power to inspect your soldering a digital camera set on macro mode works well. Take lots of jpgs with light from different angles and then pull them up on your PC. Now you can zoom in with a full screen....sure helps with looking for bridge shorts between the pins on the chips!

Mike VA6FUN

--- In AT_Sprint@yahoogroups.com, "rasteenb" <rasteenb@...> wrote:
>
> Thanks for the tips.
>
> The rig is drawing 27ma.
>
> I found one solder bridge so far on U3 (LM4808).
>
> I checked the voltage at pin 7 (reset). It is indeed 2.5V and upstream, on the other side of R22, it's 3.3V.
>
> I'll keep looking and re-soldering.
>
> rob
>
>
> --- In AT_Sprint@yahoogroups.com, "rasteenb" <rasteenb@> wrote:
> >
> > I just finished the MTR and did the smoke test.
> > No joy.
> > I get a thump in the headphones when I plug the power in, but that's it.
> > LED isn't lit. No tones.
> >
> > I checked the 3.3 and 5V regulators and they're providing the correct
> > voltage.
> > I checked the other recommended connections in the manual and they
> > appear O.K.
> >
> > Voltages on U10 (MPS430) are:
> >
> > P1=0
> > P2=3.3
> > P3=2.08* (side tone) Should be 0 according to chart
> > P4=0
> > P5=0* (OSC) Should be 2.7
> > P6=0* (OSC) Should be 1.7
> > P7-P14=2.5* (Tune, Dash, Dot, 7-SEG) Should be 3.3

> >
> > P15-P18=2.0* (7-SEG) Should be 3.3
> > P19-P20=1.0
> > P21-P23, P26-P8=1.4* (RIT,MENU, Tune Up; DDS, DDS, Mute) Should be 3.3
> > P23-P25=0
> >
> > I checked the connections to the crystal and they're good.
> >
> > Any ideas?
> >
> > Cheers,
> > Rob KA8JBY
> >
>

11051. Using a digital camera for zoom

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-17 16:10:31 UTC
From: Keith Hamilton
Topic: 11032 Message: 11051

THIS is a really cool idea! Thanks Mike!
73 Keith N8CEP

--- In AT_Sprint@yahoogroups.com, "funcanuk38" <funcanuk38@...> wrote:
>
> Rob....thought I'd mention one more tip...perhaps it's been mentioned already? If you are lacking in magnification power to inspect your soldering a digital camera set on macro mode works well. Take lots of jpgs with light from different angles and then pull them up on your PC. Now you can zoom in with a full screen....sure helps with looking for bridge shorts between the pins on the chips!
>
> Mike VA6FUN
>
> --- In AT_Sprint@yahoogroups.com, "rasteenb" <rasteenb@> wrote:
> >
> > Thanks for the tips.
> >
> > The rig is drawing 27ma.
> >
> > I found one solder bridge so far on U3 (LM4808).
> >
> > I checked the voltage at pin 7 (reset). It is indeed 2.5V and upstream, on the other side of R22, it's 3.3V.
> >
> > I'll keep looking and re-soldering.
> >
> > rob
> >
> >
> > --- In AT_Sprint@yahoogroups.com, "rasteenb" <rasteenb@> wrote:
> > >
> > > I just finished the MTR and did the smoke test.
> > > No joy.
> > > I get a thump in the headphones when I plug the power in, but that's it.
> > > LED isn't lit. No tones.
> > >
> > > I checked the 3.3 and 5V regulators and they're providing the correct
> > > voltage.
> > > I checked the other recommended connections in the manual and they
> > > appear O.K.
> > >
> > > Voltages on U10 (MPS430) are:
> > >
> > > P1=0
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> > > P3=2.08* (side tone) Should be 0 according to chart
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> > > P5=0* (OSC) Should be 2.7
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> > > P7-P14=2.5* (Tune, Dash, Dot, 7-SEG) Should be 3.3
> > >
> > > P15-P18=2.0* (7-SEG) Should be 3.3
> > > P19-P20=1.0
> > > P21-P23, P26-P8=1.4* (RIT,MENU, Tune Up; DDS, DDS, Mute) Should be 3.3
> > > P23-P25=0
> > >
> > > I checked the connections to the crystal and they're good.
> > >
> > > Any ideas?
> > >
> > > Cheers,
> > > Rob KA8JBY
> > >
> >
>

11052. Re: MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-17 17:41:18 UTC
From: Michael Johnson
Topic: 11032 Message: 11052

I find a focusable web-cam makes a very good usb microscope for inspecting solder joints and looking for solder whiskers etc.
72/73 mike g0bpu

11053. OT FOXTRAVAGANZA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-17 19:01:33 UTC
From: Dale Putnam
Topic: 11053 Message: 11053

Listen up, all you FOXii and Hounds...!! The FOXii are going to be out of their dens TOMORROW evening! Same time - 0100z til 0230z or 7pm til 8:30 pm Thursday evening.All the FOXii.. and ALL the HOUNDS.. are allowed to chase each other through the 40 AND 80 acre forests this time. And I have good faith that the Game Warden will be looking the other way..... he'll be so busy watching the Foxii.. and Hounds...that he won't notice if we sneak out past the trees marked 7030 and 7050.. and 3550 and 3570... I don't think a fellow wants to go very far..because it would be hard to keep anyone's attention. But checking just a tree or two would be ok...I'd guess. There is no log required by the scorekeeper this time.. however, posting by the Foxii.. would be nifty.. wouldn't it? So.. help spread the word, please, share. Let everyone know.. this IS the last FOXHUNT for the Season.. theFOXTRAVAGANZA will wrap it up. Y'all come, and have FUN!! Enjoy! See you there!!

Have a great day,

--... ...--
Dale - WC7S in Wy

11054. Re: [AT_Sprint] Key Jack NOT Self Grounding

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-17 20:21:48 UTC
From: Robert Williams
Topic: 11046 Message: 11054

Thanks for the info Steve ...
Will take note of your observations whilst installing the unit in the case.

Nice Ultra lightweight SOTA setup in your photo.

I've just finished building MTR2 #261, initial bench testing looks good. 3w on 20M and 1.5w on 30m @9v without any toroid tweaks.
Next job is to optimise followed by calibration.

Hope you're ready for a transatlantic MTR S2S attempt soon. :-)

73

Rob
G0PEB
MTR#261

----- Original Message -----
From: steve_wg0at
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, April 16, 2013 10:29 PM
Subject: [AT_Sprint] Key Jack NOT Self Grounding

Just an FYI ...be advised both the key jack and heahphone jack do not ground themselves when installed in new case. I installed my MTR1 in the new MTR2 case and wired everything up thinking "nah, I don't need to run an extra ground wire the chassis will take care of that" Wrong!

Not so. Donno if it's the paint job that insulates the jack's sleeve from ground or what? I had everything installed and fired the radio thinking I was through ...it wouldn't key and I heard no audio? Doh! Ohm'd the jacks and they were both ungrounded! installed a ground lead and everyone is happy!

http://tinyurl.com/d9qdxtl

Cheers, Steve/wGOAT

11055. RE: [AT_Sprint] Should I Be Concerned.....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-17 23:47:08 UTC
From: Paul
Topic: 11044 Message: 11055

Martin, I wouldn□t be .I□□ve only just received mine , it was held up in customs and that□s probably happened to yours, so there□s an extra £15 to pay. Sorry!

Paul, G0odp, s/n 248

Ps construction going well, although a bit scary!

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Martin
Sent: 16 April 2013 20:42
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Should I Be Concerned.....

.....as I haven't yet received my MTR kit?

Best wishes
Martin
MI0CLP

11056. Re: MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 00:08:47 UTC
From: jgaffke
Topic: 11032 Message: 11056

Rob,

Debug can be exasperating. The important thing is to keep trying stuff. Let us know if you make any progress.

Colin is right, the RST signal at pin 7 should be 3.3v. No good reason for it to be stuck at 2.5v. But according to page 22 of the data sheet at http://www.ti.com/lit/ds/symlink/msp430f2132.pdf it need only be as high as 0.75*3.3 = 2.48 volts worst case to be seen as a high. Could you measure that one again?

I think seeing 0 volts on XOUT might be the bigger clue. Should be an analog output from the processor to drive the crystal, and my voltmeter sees 0.34 volts there at power up whether or not I have RST grounded. Perhaps XOUT is shorted to ground, or some other nearby copper like XIN? Maybe you have a bad crystal? (There's a spare 32 KHz crystal shipped loose with each MSP430 launchpad.) XIN is a high impedance input to the MSP430 and has no DC path through the crystal, so voltage readings on XIN tend to wander. Both XOUT and XIN are several megaohms to ground on mine, measured with power off. So use your ohm meter to see if XOUT and XIN are shorted to something.

The only pins that should matter much in getting the MSP430 to sit up and talk are pins 1,2,4,5,6,7, for TEST, 3.3v, Ground, XOUT, XIN, RST. All the other pins are just peripheral port IO, they shouldn't kill the processor. I can believe they might float to 2.5v if the processor hasn't initialized them yet.

For those that are curious, more information about how TEST and RST are used is found on page 7 of
http://www.ti.com/lit/ug/slau320i/slau320i.pdf
TEST is always an input to the MSP430, gets used to clock JTAG data bits in and out of the RST pin under spy-by-wire when burning internal flash from the Launchpad. The JTAG data bits on RST are just a repeating pattern of the standard JTAG signals TCK, TMS, TDI, TDO.

I suppose you've checked the MSP430 pin 1 orientation dozens of times. The corner dot should be nearest the headphone wires.

Note that the MTR schematic says 32.578 KHz on that crystal, which is wrong, parts list has it right with 32.768 KHz. But the parts list incorrectly shows 4.5912 MHz for the IF filter crystals, the schematic gets that one right with 4.9512. Dividing 32768 Hz by 2**15 with a ripple counter gives one second, those crystals are used on watches and timers. A 4.9512 MHz crystal was often used as a microprocessor crystal since divided by 2**9 gives 9600 baud for a UART. Distributors keep gazillions of both in stock.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, Colin Tuckley <colin@...> wrote:
> P7 is the RST (Reset) pin, if it's not at or close to 3v3 then the
> processor won't be running!

11057. Re: MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 04:54:16 UTC
From: jgaffke
Topic: 11032 Message: 11057

Schematic got it right with 4.9152.
I got it wrong, finding yet another way to transpose those digits

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> the schematic gets that one right with 4.9512

11058. L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 15:08:07 UTC
From: Joseph Trombino, Jr
Topic: 11058 Message: 11058

Howdy gang:

I'm about to mount L5,L7 and L4,L8 in my MTR and believe there is a mistake(s) between the schematic and listing for bands on page 11 of the manual.

BN1 is supposed to be the higher frequency band and BN2 is the lower frequency band.

On page 11 of the manual lists BN1 as L5, L7 and BN2 as L4, L8....that would infer that L5, L7 are for 20M and L4, L8 are for 40M.

However, these are reversed between page 11 and the schematic...on the schematic L4, L8 are for 20M and L7, L8 are for 40M.

Can somebody give me a sanity check on this??

I'm gonna assume a mistake was made and use L4, L8 for 20M (8.2uh) and L7, L5 (18uh) for 40M.

73, Joe W2KJ
I QRP, therefore I am

11059. Re: [AT_Sprint] L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 15:16:35 UTC
From: TJ Campie
Topic: 11058 Message: 11059

I don't have the manual in front of me, but yes, the band select resistors (BS1 and BS2) are in order, Higher band on BS1, lower band on BS2. This is opposite of the filters as you've noted. Follow the instructions as they're written, and you'll be fine.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Thu, Apr 18, 2013 at 10:08 AM, Joseph Trombino, Jr
<jotrom@...>wrote:

> **
>
>
> Howdy gang:
>
> I'm about to mount L5,L7 and L4,L8 in my MTR and believe there is a
> mistake(s) between the schematic and listing for bands on page 11 of the
> manual.
>
> BN1 is supposed to be the higher frequency band and BN2 is the lower
> frequency band.
>
> On page 11 of the manual lists BN1 as L5, L7 and BN2 as L4, L8....that
> would infer that L5, L7 are for 20M and L4, L8 are for 40M.
>
> However, these are reversed between page 11 and the schematic...on the
> schematic L4, L8 are for 20M and L7, L8 are for 40M.
>
> Can somebody give me a sanity check on this??
>
> I'm gonna assume a mistake was made and use L4, L8 for 20M (8.2uh) and L7,
> L5 (18uh) for 40M.
>
> 73, Joe W2KJ
> I QRP, therefore I am
>
>
>

11060. Re: [AT_Sprint] L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 15:46:49 UTC
From: Joseph Trombino, Jr
Topic: 11058 Message: 11060

TJ...the instructions appear to be incorrect..that's my concern.....on page 11 the instructions call for lower inductance coils for the lower band and higher inductance for the higher band...don't believe that is correct.

73, Joe W2KJ

>
> I don't have the manual in front of me, but yes, the band select resistors (BS1 and BS2) are in order, Higher band on BS1, lower band on BS2. This is opposite of the filters as you've noted. Follow the instructions as they're written, and you'll be fine.
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> Because QRO is too easy
>
>
> On Thu, Apr 18, 2013 at 10:08 AM, Joseph Trombino, Jr <jotrom@...> wrote:
>
> Howdy gang:
>
> I'm about to mount L5,L7 and L4,L8 in my MTR and believe there is a mistake(s) between the schematic and listing for bands on page 11 of the manual.
>
> BN1 is supposed to be the higher frequency band and BN2 is the lower frequency band.
>
> On page 11 of the manual lists BN1 as L5, L7 and BN2 as L4, L8....that would infer that L5, L7 are for 20M and L4, L8 are for 40M.
>
> However, these are reversed between page 11 and the schematic...on the schematic L4, L8 are for 20M and L7, L8 are for 40M.
>
> Can somebody give me a sanity check on this??
>
> I'm gonna assume a mistake was made and use L4, L8 for 20M (8.2uh) and L7, L5 (18uh) for 40M.
>
> 73, Joe W2KJ
> I QRP, therefore I am
>
>
>

>

11061. Re: [AT_Sprint] L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 15:56:12 UTC
From: jaevans@...
Topic: 11058 Message: 11061

Could the confusion be around the meaning of the term 'higher' ?? Is it higher in frequency or higher in wavelength?

72 - john - n0hj

>
> TJ...the instructions appear to be incorrect..that's my concern.....on
> page 11 the instructions call for lower inductance coils for the lower
> band and higher inductance for the higher band...don't believe that is
> correct.
>
> 73, Joe W2KJ
>

11062. Re: [AT_Sprint] L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 15:56:04 UTC
From: TJ Campie
Topic: 11058 Message: 11062

as you are looking at the board with the coils in the lower right corner, the 20m (or higher frequency parts) are on the left, and the 40 (or lower freq parts) are on the right. The values are correct, I've built 3 of them this way so far.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Thu, Apr 18, 2013 at 10:46 AM, Joseph Trombino, Jr
<jotrom@...>wrote:

>
> TJ...the instructions appear to be incorrect..that's my concern.....on
> page 11 the instructions call for lower inductance coils for the lower band
> and higher inductance for the higher band...don't believe that is correct.
>
> 73, Joe W2KJ
>
> >
> > I don't have the manual in front of me, but yes, the band select
> resistors (BS1 and BS2) are in order, Higher band on BS1, lower band on
> BS2. This is opposite of the filters as you've noted. Follow the
> instructions as they're written, and you'll be fine.
> >
> > 73, W0EA
> > TJ
> > ----
> > QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> > NAQCC #3768 | Flying Pigs QRP #2254
> > Elecraft KX3 SN 288
> > Because QRO is too easy
> >
> >
> > On Thu, Apr 18, 2013 at 10:08 AM, Joseph Trombino, Jr <
> jotrom@...> wrote:
> >
> > Howdy gang:
> >
> > I'm about to mount L5,L7 and L4,L8 in my MTR and believe there is a
> mistake(s) between the schematic and listing for bands on page 11 of the
> manual.

> >
> > BN1 is supposed to be the higher frequency band and BN2 is the lower
> frequency band.
> >
> > On page 11 of the manual lists BN1 as L5, L7 and BN2 as L4, L8....that
> would infer that L5, L7 are for 20M and L4, L8 are for 40M.
> >
> > However, these are reversed between page 11 and the schematic...on the
> schematic L4, L8 are for 20M and L7, L8 are for 40M.
> >
> > Can somebody give me a sanity check on this??
> >
> > I'm gonna assume a mistake was made and use L4, L8 for 20M (8.2uh) and
> L7, L5 (18uh) for 40M.
> >
> > 73, Joe W2KJ
> > I QRP, therefore I am
> >
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> Yahoo! Groups Links
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11063. Re: L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 16:02:23 UTC
From: jgaffke
Topic: 11058 Message: 11063

I don't know about the current run of boards, but on the first run the silk legend of "BNDA" and "BNDB" near the RX trimmer caps should be reversed. As noted in message 8739 and several times since by others.

Perhaps you have found some other inconsistency. Exactly what disagrees with what?

11064. Re: [AT_Sprint] L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 16:30:09 UTC
From: Joseph Trombino, Jr
Topic: 11058 Message: 11064

It is higher in frequency...i,e., 14Mhz for band 1 and 7Mhz for band 2.

73, Joe W2KJ

> Could the confusion be around the meaning of the term 'higher' ?? Is it
> higher in frequency or higher in wavelength?
>
> 72 - john - n0hj
>
> >
> > TJ...the instructions appear to be incorrect..that's my concern.....on
> > page 11 the instructions call for lower inductance coils for the lower
> > band and higher inductance for the higher band...don't believe that is
> > correct.
> >
> > 73, Joe W2KJ
> >
>
>

11065. [SUCCESS!] Re: MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 16:40:53 UTC
From: Rob Steenburgh
Topic: 11065 Message: 11065

Thanks again to everyone who replied offering advice and encouragement! That made all the difference. I was beginning to think I'd never get it working.

(I had to take a break from the rig for a bit; troubleshooting is indeed exasperating and I've found that frustration typically leads to more mistakes and bad decisions.)

Today, after reading all the replies, I went back to the bench.

I swapped the xtal out with the extra from an MSP430 launchpad (thanks Jerry); no change. Then, I went back and revisited every solder joint. It appeared on some chips that I didn't use enough solder paste. These chips seemed to have a pin here and there that was dry. So I made sure they were all soldered.

When I plugged in the battery again, I had a hiss in the headphones but still no beeps.

Did another go-around on the MSP chip to clean up the joints; turns out I had made a bridge when I re-soldered it.

I removed the solder bridge and shazam, it worked! ITS ALIVE!

I get a brief 4 on the display, the Morse code equivalent in the headphones, and then the decimal point on the display. Woo Hoo!

Now, I know there is still more to do to get the rig on the air, but this was a big hurdle.

Thanks again and hope to have this beauty on the air soon.

73,
Rob KA8JBY

11066. Re: [AT_Sprint] [SUCCESS!] Re: MTR DEAD - no LED, no tones, processor issue?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 18:50:41 UTC
From: wmorrill@...
Topic: 11065 Message: 11066

Rob-
Sounds like you are making progress, don't give up.
I scored a nice used Bausch and Loumb stereo microscope on an auction site, it has been great for examining boards.
73
Wendell
N7WM

> Thanks again to everyone who replied offering advice and encouragement!?
> That made all the difference.? I was beginning to think I'd never get it
> working.
>
> (I had to take a break from the rig for a bit; troubleshooting is indeed
> exasperating and I've found that frustration typically leads to more
> mistakes and bad decisions.)
>
> Today, after reading all the replies, I went back to the bench.
>
> I swapped the xtal out with the extra from an MSP430 launchpad (thanks
> Jerry); no change.
> Then, I went back and revisited every solder joint.? It appeared on some
> chips that I didn't use enough solder paste.? These chips seemed to have a
> pin here and there that was dry.? So I made sure they were all soldered.
>
> When I plugged in the battery again, I had a hiss in the headphones but
> still no beeps.
>
> Did another go-around on the MSP chip to clean up the joints; turns out I
> had made a bridge when I re-soldered it.
>
> I removed the solder bridge and shazam, it worked!? ITS ALIVE!
>
> I get a brief 4 on the display, the Morse code equivalent in the
> headphones, and then the decimal point on the display.? Woo Hoo!
>
> Now, I know there is still more to do to get the rig on the air, but this
> was a big hurdle.
>
> Thanks again and hope to have this beauty on the air soon.
>
> 73,
> Rob KA8JBY

11067. Re: Should I Be Concerned.....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 19:31:21 UTC
From: Martin
Topic: 11044 Message: 11067

No sooner had I posted my query Paul, when I received mine as well- typical- and the customs fee was a nice surprise!
Good luck with the constructon. I wonder what wattage of soldering iron and what size of tip you and other members of the group use for this kit. My iron has a tip temperature of 420 C, is this too high?
I am a complete smd virgin and would appreciate any advice.
If I make a mess of this I'll cry like a baby!
Thanks for your reply Paul.

Best wishes
Martin
MI0CLP

--- In AT_Sprint@yahoogroups.com, "Paul" <pswarman@...> wrote:
>
> Martin, I wouldn't be .I"ve only just received mine , it was held up in
> customs and that's probably happened to yours, so there's an extra £15 to
> pay. Sorry!
>
>
>
> Paul, G0odp, s/n 248
>
>
>
> Ps construction going well, although a bit scary!
>
>
>
> _____
>
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of Martin
> Sent: 16 April 2013 20:42
> To: AT_Sprint@yahoogroups.com
> Subject: [AT_Sprint] Should I Be Concerned.....
>
>
>
>
>
> .....as I haven't yet received my MTR kit?
>
> Best wishes
> Martin

> MI0CLP
>

11068. Re: [AT_Sprint] Re: Should I Be Concerned.....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 19:45:20 UTC
From: TJ Campie
Topic: 11044 Message: 11068

I run mine around 400C, just be careful to limit time on part while soldering!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Thu, Apr 18, 2013 at 2:31 PM, Martin <martin1hunter@...>wrote:

> **
>
>
> No sooner had I posted my query Paul, when I received mine as well-
> typical- and the customs fee was a nice surprise!
> Good luck with the constructon. I wonder what wattage of soldering iron
> and what size of tip you and other members of the group use for this kit.
> My iron has a tip temperature of 420 C, is this too high?
> I am a complete smd virgin and would appreciate any advice.
> If I make a mess of this I'll cry like a baby!
> Thanks for your reply Paul.
>
> Best wishes
> Martin
> MI0CLP
>
>
>
> --- In AT_Sprint@yahoogroups.com, "Paul" <pswarman@...> wrote:
> >
> > Martin, I wouldn't be….I''ve only just received mine , it was held up in
> > customs and that's probably happened to yours, so there's an extra £15 to
> > pay. Sorry!
> >
> >
> >
> > Paul, G0odp, s/n 248
> >
> >
> >
> > Ps construction going well, although a bit scary!
> >
> >

> >
> > _____
> >
> > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On
> Behalf
> > Of Martin
> > Sent: 16 April 2013 20:42
> > To: AT_Sprint@yahoogroups.com
> > Subject: [AT_Sprint] Should I Be Concerned.....
> >
> >
> >
> >
> >
> > .....as I haven't yet received my MTR kit?
> >
> > Best wishes
> > Martin
> > MI0CLP
> >
>
>
>

11069. Re: Should I Be Concerned.....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 20:09:25 UTC
From: Martin
Topic: 11044 Message: 11069

Thanks TJ, what size of tip do you use?

--- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
>
> I run mine around 400C, just be careful to limit time on part while
> soldering!
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Thu, Apr 18, 2013 at 2:31 PM, Martin <martin1hunter@...>wrote:
>
> > **
> >
> >
> > No sooner had I posted my query Paul, when I received mine as well-
> > typical- and the customs fee was a nice surprise!
> > Good luck with the constructon. I wonder what wattage of soldering iron
> > and what size of tip you and other members of the group use for this kit.
> > My iron has a tip temperature of 420 C, is this too high?
> > I am a complete smd virgin and would appreciate any advice.
> > If I make a mess of this I'll cry like a baby!
> > Thanks for your reply Paul.
> >
> > Best wishes
> > Martin
> > MI0CLP
> >
> >
> >
> > --- In AT_Sprint@yahoogroups.com, "Paul" <pswarman@> wrote:
> > >
> > > Martin, I wouldn't be .I"ve only just received mine , it was held up in
> > > customs and that's probably happened to yours, so there's an extra £15 to
> > > pay. Sorry!
> > >
> > >
> > >

> > > Paul, G0odp, s/n 248
> > >
> > >
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> > >
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> > > _____
> > >
> > > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On
> > Behalf
> > > Of Martin
> > > Sent: 16 April 2013 20:42
> > > To: AT_Sprint@yahoogroups.com
> > > Subject: [AT_Sprint] Should I Be Concerned.....
> > >
> > >
> > >
> > >
> > >
> > > .....as I haven't yet received my MTR kit?
> > >
> > > Best wishes
> > > Martin
> > > MI0CLP
> > >
> >
> >
> >
>

11070. Re: [AT_Sprint] Re: Should I Be Concerned.....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-18 20:11:35 UTC
From: TJ Campie
Topic: 11044 Message: 11070

ummmm This one:
http://www.amazon.com/gp/product/B004ORB8GK/ref=wms_ohs_product?ie=UTF8&psc=1

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Thu, Apr 18, 2013 at 3:09 PM, Martin <martin1hunter@...>wrote:

> **
>
>
> Thanks TJ, what size of tip do you use?
>
>
> --- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
> >
> > I run mine around 400C, just be careful to limit time on part while
> > soldering!
> >
> > 73, W0EA
> > TJ
> > ----
> > QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> > NAQCC #3768 | Flying Pigs QRP #2254
> > Elecraft KX3 SN 288
> > *Because QRO is too easy*
> >
> >
> > On Thu, Apr 18, 2013 at 2:31 PM, Martin <martin1hunter@...>wrote:
> >
> > > **
>
> > >
> > >
> > > No sooner had I posted my query Paul, when I received mine as well-
> > > typical- and the customs fee was a nice surprise!
> > > Good luck with the constructon. I wonder what wattage of soldering iron
> > > and what size of tip you and other members of the group use for this
> kit.
> > > My iron has a tip temperature of 420 C, is this too high?
> > > I am a complete smd virgin and would appreciate any advice.

> > > If I make a mess of this I'll cry like a baby!
> > > Thanks for your reply Paul.
> > >
> > > Best wishes
> > > Martin
> > > MI0CLP
> > >
> > >
> > >
> > > --- In AT_Sprint@yahoogroups.com, "Paul" <pswarman@> wrote:
> > > >
> > > > Martin, I wouldn't be….I''ve only just received mine , it was held
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> > > > customs and that's probably happened to yours, so there's an extra
> £15 to
> > > > pay. Sorry!
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> > > > Paul, G0odp, s/n 248
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> On
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> > > > Subject: [AT_Sprint] Should I Be Concerned.....
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> > > >
> > > >
> > > >
> > > >
> > > > .....as I haven't yet received my MTR kit?
> > > >
> > > > Best wishes
> > > > Martin
> > > > MI0CLP
> > > >
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> > >
> > >

> >
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>

11071. Re: L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 06:48:50 UTC
From: jgaffke
Topic: 11058 Message: 11071

Joe,

My apologies for dismissing your complaint. I built a first run board, the build instructions for band specific parts were much clearer in that manual. For what it's worth, my stock build first run has L4,L8,L12,L13 stuffed for 40 meters, those are all near the edge of the board and labeled BN2 on page 11 of the second run manual build instructions. The switches get pushed left to select 40M.

The schematic in the old manual shows the filters correctly, calling out the correct inductor reference designators for the two bands exactly as I built my MTR. The new manual incorrectly swaps the schematic reference designators for the RX filter parts, but not the TX filter parts. I think L4,L8,L12,L13 should all go with Band 2, and I suggest Band 2 be stuffed for 40 meters. This agrees with how the first run MTR's were built, and agrees with the statement on page 8 that states "Make BS1 highest freq band".

Correct the schematic in your second run manual (in the files section, MTR_2.pdf in folder MTR) by swapping designators L5,L7,C25,BNDB with L4,L8,C26,BNDA at the bottom left of page 22.

As Steve points out in message 10863, it doesn't matter which band is where. His intent was to use the side with the shorter board traces for the higher frequency band, but the traces are all just a fraction of an inch long anyway.

Very confusing.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Joseph Trombino, Jr" <jotrom@...>
> BN1 is supposed to be the higher frequency band and BN2
> is the lower frequency band.
> On page 11 of the manual lists BN1 as L5, L7 and BN2 as L4,
> L8....that would infer that L5, L7 are for 20M and L4, L8
> are for 40M.
> However, these are reversed between page 11 and the schematic...
> on the schematic L4, L8 are for 20M and L7, L8 are for 40M.

11072. Re: L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 14:17:06 UTC
From: jonesr_99
Topic: 11058 Message: 11072

I built my MTR according to schematic on page 22, so you are saying this is incorrect? What problems will I have if this is incorrect?

Ron
W9RCJ

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Joe,
>
> My apologies for dismissing your complaint. I built a first run board, the build instructions for band specific parts were much clearer in that manual. For what it's worth, my stock build first run has L4,L8,L12,L13 stuffed for 40 meters, those are all near the edge of the board and labeled BN2 on page 11 of the second run manual build instructions. The switches get pushed left to select 40M.
>
> The schematic in the old manual shows the filters correctly, calling out the correct inductor reference designators for the two bands exactly as I built my MTR. The new manual incorrectly swaps the schematic reference designators for the RX filter parts, but not the TX filter parts. I think L4,L8,L12,L13 should all go with Band 2, and I suggest Band 2 be stuffed for 40 meters. This agrees with how the first run MTR's were built, and agrees with the statement on page 8 that states "Make BS1 highest freq band".
>
> Correct the schematic in your second run manual (in the files section, MTR_2.pdf in folder MTR) by swapping designators L5,L7,C25,BNDB with L4,L8,C26,BNDA at the bottom left of page 22.
>
> As Steve points out in message 10863, it doesn't matter which band is where. His intent was to use the side with the shorter board traces for the higher frequency band, but the traces are all just a fraction of an inch long anyway.
>
> Very confusing.
> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, "Joseph Trombino, Jr" <jotrom@>
> > BN1 is supposed to be the higher frequency band and BN2
> > is the lower frequency band.
> > On page 11 of the manual lists BN1 as L5, L7 and BN2 as L4,
> > L8....that would infer that L5, L7 are for 20M and L4, L8
> > are for 40M.
> > However, these are reversed between page 11 and the schematic...
> > on the schematic L4, L8 are for 20M and L7, L8 are for 40M.
>

11073. MTR Arrived now in Italy

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 09:38:43 UTC
From: peri_cristiano
Topic: 11073 Message: 11073

S/N 269 arrived now!
72,
iz2znn

11074. Re: [AT_Sprint] L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 08:12:18 UTC
From: Earle Craig
Topic: 11058 Message: 11074
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Joe,

I had already composed an email to respond to you and was assuming that the schematic is correct. Then, I saw Jerry's email and tossed what I wrote. How about this for a bottom line for you?

When it comes to the RX Bandpass Filters and the TX Lowpass Filters, as TJ pointed out, install the 20M components closer to the middle of the board and the 40M components closer to the edge of the board.

We know this also because the photo of the MTR on page 1 of the manual shows the band switch to the right (towards the middle of the board) for 20M. So we just need to remember, 20M towards the middle and 40M towards the edge.

Also, the related capacitors for the RX Bandpass Filters, on the one hand C25 and C26, and on the other hand the Band trimmer capacitors, are of equal value for the 20M and 40M filters. So you cannot install these in the wrong position.

Therefore, as you said in your first post, put the 8.2uH coils for 20M in the BN1/L5,L7 locations on the board illustration above the table on page 11 and the 18uH coils in the BN2/L4,L8 locations.

Earle
AB6WL

P.S. For anyone who might be interested, below are plots for the two Bandpass Filters and for the two Lowpass Filters --

MTR 20M RX Bandpass Filter

11075. For Sale: ATS-4B QRP transceiver (built)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 14:28:38 UTC
From: ae5xae5x
Topic: 11075 Message: 11075

Details at:
http://www.ae5x.com/blog/2013/04/18/for-sale-ats-4b-qrp-transceiver-built/

John AE5X

11076. Re: For Sale: ATS-4B QRP transceiver (built)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 15:18:07 UTC
From: ae5xae5x
Topic: 11075 Message: 11076

SOLD.

--- In AT_Sprint@yahoogroups.com, "ae5xae5x" <ae5x@...> wrote:
>
> Details at:
> http://www.ae5x.com/blog/2013/04/18/for-sale-ats-4b-qrp-transceiver-built/
>
> John AE5X
>

11077. Re: L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 15:32:54 UTC
From: jgaffke
Topic: 11058 Message: 11077

Ron,

Yup, I'm saying the schematic on page 22 is incorrect.
Of course, it was very late, and I've been wrong before.

Builders that followed the build instructions and
made self consistent choices for Band1 and Band2
should be fine. It's OK if Band1 is 40 meters,
but most builders are making Band1 20 meters.

If you followed the schematics while building (hey, you're
thinking too hard!!), you probably want to swap L7 with L8,
and L5 with L4.

If you don't do that, you may have trouble getting the
receiver to peak on the desired signal. That might be
difficult to know since those trimmer caps have no stops
at min and max. What you might think is a proper peak
on 40 meters could turn out to simply be the trimmer cap
at its maximum value.

I suggest you flip the switches to the 40 meter side, then
follow the traces to see which receive filter inductors
are connected in. If built correctly, the color code
should be brown,gray,black,gold for 18uH on those two
inductors. The 47k band select resistor for 40 meters
should also be selected by switch S5.

On a related note, in message 10988 I suggest you add 100k
0805 resistors over the top of any 47k band select resistor
for 40 meters and 100k over the top of any 22k band select
resistor for 30 meters. Those resistors are at R3 and R4.
Most builders are not having trouble with the MTR as kitted,
but some are. Especially those with other than the standard
20/40 meter band selection.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "jonesr_99" wrote:
> I built my MTR according to schematic on page 22,
> so you are saying this is incorrect? What problems
> will I have if this is incorrect? Ron W9RCJ

11078. Re: L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 15:39:25 UTC
From: jgaffke
Topic: 11058 Message: 11078

Only the schematic in the second run manual, found in the MTR folder of the files section under MTR_2.pdf is incorrect. The first run manual (for kits sent out in 2012) in MTRmanual4212.pdf is correct. The two boards have significant differences, as pointed out in message 10879

--- In AT_Sprint@yahoogroups.com, "jgaffke" wrote:
> Yup, I'm saying the schematic on page 22 is incorrect.

11079. Re: L5,L7 L4,L8 in MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 18:44:29 UTC
From: jonesr_99
Topic: 11058 Message: 11079

Jerry,

Thanks for the info, it is greatly appreciated.
I did peak the signals using a signal gen and an O scope.

Ron
W9RCJ

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Ron,
>
> Yup, I'm saying the schematic on page 22 is incorrect.
> Of course, it was very late, and I've been wrong before.
>
> Builders that followed the build instructions and
> made self consistent choices for Band1 and Band2
> should be fine. It's OK if Band1 is 40 meters,
> but most builders are making Band1 20 meters.
>
> If you followed the schematics while building (hey, you're
> thinking too hard!!), you probably want to swap L7 with L8,
> and L5 with L4.
>
> If you don't do that, you may have trouble getting the
> receiver to peak on the desired signal. That might be
> difficult to know since those trimmer caps have no stops
> at min and max. What you might think is a proper peak
> on 40 meters could turn out to simply be the trimmer cap
> at its maximum value.
>
> I suggest you flip the switches to the 40 meter side, then
> follow the traces to see which receive filter inductors
> are connected in. If built correctly, the color code
> should be brown,gray,black,gold for 18uH on those two
> inductors. The 47k band select resistor for 40 meters
> should also be selected by switch S5.
>
> On a related note, in message 10988 I suggest you add 100k
> 0805 resistors over the top of any 47k band select resistor
> for 40 meters and 100k over the top of any 22k band select
> resistor for 30 meters. Those resistors are at R3 and R4.
> Most builders are not having trouble with the MTR as kitted,
> but some are. Especially those with other than the standard
> 20/40 meter band selection.
>

> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, "jonesr_99" wrote:
> > I built my MTR according to schematic on page 22,
> > so you are saying this is incorrect? What problems
> > will I have if this is incorrect? Ron W9RCJ
>

11080. MSP430 for the ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 21:38:38 UTC
From: ab6wl
Topic: 11080 Message: 11080

Hello All,

The parts list in the manual for the ATS-4B indicates an MSP430F1232DW. The schematic shows an MSP430F1231.

At the DigiKey website, I found these options--

MSP430F123IPW (Slope A/D Data Converter)

MSP430F123IDW (Slope A/D Data Converter)

MSP430F1232IPW (A/D 8x10b Data Converter)

MSP430F1232IDW (A/D 8x10b Data Converter)

Which is the one for the ATS-4B?

73,

Earle
AB6WL

11081. MTR #171 up and running

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 22:49:16 UTC
From: Joseph Trombino, Jr
Topic: 11081 Message: 11081

Howdy Gang:

In spite of myself (and the errors on the board and the manual) I got MTR s/n 171 up and running FB.

Love the little case....much better than an Altoids tin...nice job on that Steve, KD1JV.

Unit fired up and all the smoke stayed in the parts (grin) calibration went without a hitch and front end aligned up easily with my HP8656B sig gen.

This is gonna be a sweet little rig to take to the field...will give my KX3 some rest time and the MTR will play just fine with my PAR EFHW for 40/20/10M.

I keep saying I will never again build and SMD kit...these 68 year old eyes sure needed some help from my OptiVisors...but if Steve ever comes out with another run of the ATS4B I will probably break down and give it a try.

Wish I could say I have taken to these little parts...just don't sneeze around them and all is fine!!

Now to get out to the field for some fun with the new MTR.

73, Joe W2KJ

11082. Re: MSP430 for the ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-19 22:59:47 UTC
From: jgaffke
Topic: 11080 Message: 11082

I don't have an ATS-4B, but you can almost read the print
on the MSP430 shown on page 11 of the ATS-4B manual.
Looks like "M430F1232". The pin spacing is the same as the
74AC02, so it's the 28 pin DW package. My MTR has the
smaller 28 pin PW package, same pin spacing as the ADS9834.

I couldn't find an MSP430F1231 mentioned on the TI website.

Check out pages 2,3,47,51 of the TI MSP430F1232 data sheet:
http://www.ti.com/lit/ds/slas361d/slas361d.pdf

My guess is you want the MSP430F1232IDW, and that the
missing "I" simply indicates Industrial temperature range.
As opposed to the wimpier Commercial temperature range
which is not available on this part.

Good luck programming it. I think you will need the old
parallel port programmer, and that USB to parallel adapters
won't work.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "ab6wl" <ecraig@...> wrote:
>
> Hello All,
> parts list ... for the ATS-4B indicates an MSP430F1232DW. The schematic shows an
MSP430F1231.

11083. Looking for a MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-20 02:36:14 UTC
From: f_skinner
Topic: 11083 Message: 11083

I want to buy a MTR, 1 st or 2nd generation, built or not. If you have one collecting dust and you want to sell it let me know what you want for it..

Frank
K0JQZ
f_skinner at yahoo.com

11084. MTR 30/20 option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-20 10:56:47 UTC
From: Bob Cutter
Topic: 11084 Message: 11084

Has anyone successfully built this option?

What, if any, changes did you make from the build instructions?

72, Bob KIØG

11085. RE: [AT_Sprint] MTR 30/20 option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-20 11:32:42 UTC
From: Paul
Topic: 11084 Message: 11085

Hi

Hi Bob, I'm working on that option right now and I've stopped as I'm at the band selection stage and have noticed some of the postings noting mistakes…..so I'd just started to go back through the posts to look for clarification. I'll be very interested in answers you get.

Regards

Paul, G0odp, Dorset, England

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Bob Cutter
Sent: 20 April 2013 11:57
To: at spring
Subject: [AT_Sprint] MTR 30/20 option

Has anyone successfully built this option?

What, if any, changes did you make from the build instructions?

72, Bob KIØG

11086. Re: Should I Be Concerned.....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-20 12:03:28 UTC
From: Martin
Topic: 11044 Message: 11086

Thanks again TJ.

73
MI0CLP

--- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
>
> ummmm This one:
> http://www.amazon.com/gp/product/B004ORB8GK/ref=wms_ohs_product?ie=UTF8&psc=1
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Thu, Apr 18, 2013 at 3:09 PM, Martin <martin1hunter@...>wrote:
>
> > **
> >
> >
> > Thanks TJ, what size of tip do you use?
> >
> >
> > --- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@> wrote:
> > >
> > > I run mine around 400C, just be careful to limit time on part while
> > > soldering!
> > >
> > > 73, W0EA
> > > TJ
> > > ----
> > > QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> > > NAQCC #3768 | Flying Pigs QRP #2254
> > > Elecraft KX3 SN 288
> > > *Because QRO is too easy*
> > >
> > >
> > > On Thu, Apr 18, 2013 at 2:31 PM, Martin <martin1hunter@>wrote:
> > >
> > > > **

> >
> > > >
> > > >
> > > > No sooner had I posted my query Paul, when I received mine as well-
> > > > typical- and the customs fee was a nice surprise!
> > > > Good luck with the constructon. I wonder what wattage of soldering iron
> > > > and what size of tip you and other members of the group use for this
> > kit.
> > > > My iron has a tip temperature of 420 C, is this too high?
> > > > I am a complete smd virgin and would appreciate any advice.
> > > > If I make a mess of this I'll cry like a baby!
> > > > Thanks for your reply Paul.
> > > >
> > > > Best wishes
> > > > Martin
> > > > MI0CLP
> > > >
> > > >
> > > >
> > > > --- In AT_Sprint@yahoogroups.com, "Paul" <pswarman@> wrote:
> > > > >
> > > > > Martin, I wouldn't be .I"ve only just received mine , it was held
> > up in
> > > > > customs and that's probably happened to yours, so there's an extra
> > £15 to
> > > > > pay. Sorry!
> > > > >
> > > > >
> > > > >
> > > > > Paul, G0odp, s/n 248
> > > > >
> > > > >
> > > > >
> > > > > Ps construction going well, although a bit scary!
> > > > >
> > > > >
> > > > >
> > > > > _____
> > > > >
> > > > > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com]
> > On
> > > > > Behalf
> > > > > Of Martin
> > > > > Sent: 16 April 2013 20:42
> > > > > To: AT_Sprint@yahoogroups.com
> > > > > Subject: [AT_Sprint] Should I Be Concerned.....
> > > > >
> > > > >
> > > > >

> > > > >
> > > > >
> > > > > .....as I haven't yet received my MTR kit?
> > > > >
> > > > > Best wishes
> > > > > Martin
> > > > > MI0CLP
> > > > > >
> > > > >
> > > > >
> > > > >
> > > >
> >
> >
> >
>

11087. Re: [AT_Sprint] Looking for a MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-20 18:01:42 UTC
From: James Fehling
Topic: 11083 Message: 11087

Frank, i have a first run mtr i may be selling, waiting to sees if my 2nd run mtr comes to life, 90% done Building it. If all goes well i will let you know
Jim n2jfd
On Apr 19, 2013 10:36 PM, "f_skinner" <f_skinner@...> wrote:

> **
>
>
> I want to buy a MTR, 1 st or 2nd generation, built or not. If you have one
> collecting dust and you want to sell it let me know what you want for it..
>
> Frank
> K0JQZ
> f_skinner at yahoo.com
>
>
>

11088. Re: [AT_Sprint] Looking for a MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-20 19:12:16 UTC
From: Frank Skinner
Topic: 11083 Message: 11088

Thanks Jim, keep me posted and good luck with your build.

Sent from my iPhone

On Apr 20, 2013, at 12:01, James Fehling <n2jfdny@...> wrote:

> Frank, i have a first run mtr i may be selling, waiting to sees if my 2nd run mtr comes to life, 90% done Building it. If all goes well i will let you know
> Jim n2jfd
>
> On Apr 19, 2013 10:36 PM, "f_skinner" <f_skinner@yahoo.com> wrote:
>>
>> I want to buy a MTR, 1 st or 2nd generation, built or not. If you have one collecting dust and you want to sell it let me know what you want for it..
>>
>> Frank
>> K0JQZ
>> f_skinner at yahoo.com
>
>

11089. Re: MTR 30/20 option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-21 13:39:36 UTC
From: Colin
Topic: 11084 Message: 11089

Hi Bob,

I finished building my 30m/20m MTR last Sunday but I've only tried it out for the first time today.

The rig works FB. I worked N1EU and W4ZV on 30m this morning from northern England.

If you build the rig as directed by Steve's instructions in the build manual you should be ok. Build as per 40m/20m but swap out the 40m parts for the 30m parts.

As noted earlier in the group, looking at the board with 'Mountain Top'er' the correct way up, the 20m RX inductors and TX toroids are fitted towards the middle of the board -Band 1 and the 30m RX inductors and TX toroids are fitted towards the edge of the board - Band 2.

The only 'mod' needed was to change the 30m band select resistor for band 2, R4 towards the right edge of the board from the supplied 22K to 18K, this gets the band select voltage more into the range that the processor is looking for.

I know of another successfully built 30m/20m MTR and this rig also uses an 18K band relevant resistor for band 2.

So yes, it has been done successfully.

73 es gl

Colin, M0CGH

--- In AT_Sprint@yahoogroups.com,

Bob Cutter <ki0g@...> wrote:
>
> Has anyone successfully built this option?
>
> What, if an.y, changes did you make from the build instructions?
>
> 72, Bob KIÃ□G
>

11090. new guy needs some help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-22 02:07:07 UTC
From: james
Topic: 11090 Message: 11090

hi gang, this is my first build and go figure... no joy when power applied. no sound and no leds. so i did a once over for solder joints and they look good but i will do a secondary to be positive. i do hear something in the headphones when i apply battery but nothing more than what sounds like the battery being connected.
so here is my question. i am not an engineer so i dont have alot of test equipment to aide me in troubleshooting. i do have a digital meter.

the first thing the troubleshooting asks you to do is check for shorts across dc in (i know where that is) +3.5 and +5 regulators to ground (dont know where those are) can someone tell me were to test for this? thanks

11091. MTR's Maiden Voyage

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-22 02:32:23 UTC
From: steve_wg0at
Topic: 11091 Message: 11091

http://youtu.be/rKTjC_yVXBw
...wGOAT

11092. Re: new guy needs some help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-22 04:12:06 UTC
From: jgaffke
Topic: 11090 Message: 11092

James,
Look at the schematic on page 22 of the MTR_2.pdf file in the MTR folder of the files section of this group. U7 is the regulator for 5 volts, U4 is the regulator for 3.3 volts. To measure the 5 volt supply, put the black probe of your voltmeter into one of the four corner holes (they are connected to ground), and probe the plus side of C20. Measure from the plus side of C37 to check the 3.3 volt supply.
Most problems with bringing these rigs up come down to trouble with soldering parts to the boards. Inspect everything as closely as you can, a binocular microscope is ideal, some strong drugstore reading glasses and a very bright light are almost good enough. Look for shorts, which could be just a spider's silk thickness of solder between two adjacent pins, though more likely a big glob somewhere. And look for cold solder joints, where you might get solder on the pin and solder on the pad, but they are not soldered together. I push at the pins with the tip of an exacto blade to see if they move when looking for cold solder joints.
You will need to get the processor up to where the LED lights up before much else will happen. The processor needs to initialize the AD9834 DDS chip to get the local oscillator going before you will hear any signals in the receiver. See message 11056 for a discussion on getting the processor going.
Good Luck!
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "james" <n2jfdny@...> wrote:
> ...no sound and no leds...check ...+3.5 and +5 regulators...

11094. Re: new guy needs some help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-22 13:14:38 UTC
From: bevcomm
Topic: 11090 Message: 11094

Please be sure to only touch one pin at a time on the voltage regulators the input and output are next to each other and if shorted the 12 v will blow all the chips fed by the regulator.
Arthur NS7E

11095. MTR 20/30 option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-22 23:15:21 UTC
From: Bob Cutter
Topic: 11095 Message: 11095

The consensus seem to be that R4 needs to be replaced by an 18K to switch properly.

Does anyone have an easy source where I might obtain this one resistor without the minimum order requirement?

72, Bob KIØG

11096. Re: MTR 20/30 option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-23 01:08:13 UTC
From: jgaffke
Topic: 11095 Message: 11096

Mouser would be happy to sell you one for a nickel.
Course, they might want $10 for shipping.
Perhaps somebody's willing to buy a couple dozen each at 18K,
33K and 100K, then ship them around for the price of an SASE.
See messages 10992 and 10988.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, Bob Cutter <ki0g@...> wrote:
> Does anyone have an easy source where I might obtain this one resistor without the minimum order requirement?

11097. Re: [AT_Sprint] MTR 20/30 option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-23 01:29:31 UTC
From: Bill Noyce
Topic: 11095 Message: 11097

I think Radio Shack now carries some 1/8 watt (leaded) resistors. Is there room for one of those? If they don't have 18k, use 100k in parallel with the 22k SMD you have.
-- Bill, AB1AV
On Apr 22, 2013 7:15 PM, "Bob Cutter" <ki0g@...> wrote:

> **
>
>
> The consensus seem to be that R4 needs to be replaced by an 18K to switch
> properly.
>
> Does anyone have an easy source where I might obtain this one resistor
> without the minimum order requirement?
>
> 72, Bob KIØG
>
>

11098. Re: Updated MTR_2 manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-23 09:35:17 UTC
From: bill_w4zv
Topic: 10855 Message: 11098

I started building my MTR a few weeks ago and my 9 year old soldering station gave up the ghost. I'm now ready to go again but in the interim I see there have been several documentation issues discovered in the most current manual (dated 2 April 2013). Before I begin again:

1. Steve, will there be a second revision of the manual beyond the current one?

2. If not, has anyone kept track of the issues? Before I go through all the posts myself, has anyone already done this that would share their list?

73, Bill W4ZV

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Updates:
> Added missing R45 location and value to resistor placement page.
> Corrected color code for 150 pfd chip caps (BRN/GRN/BRN)
> Corrected duplicate capacitor designation in LPF componet value chart.
>

11099. Re: MTR 20/30 option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-23 11:12:32 UTC
From: n1rx
Topic: 11095 Message: 11099

```
Send me an SASE to my QRZ.com listed address, and I'll mail you one back.
Bruce, N1RX
```

--- In AT_Sprint@yahoogroups.com, Bob Cutter <ki0g@...> wrote:
>
> The consensus seem to be that R4 needs to be replaced by an 18K to switch properly.
>
> Does anyone have an easy source where I might obtain this one resistor without the minimum order requirement?
>
> 72, Bob KIÃ□G
>

11100. Re: [AT_Sprint] Re: Updated MTR_2 manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-23 11:44:58 UTC
From: Lee Hiers
Topic: 10855 Message: 11100

Steve started a 500 mile hike on the AT last week, so I don't know if he'll be in touch for a while or not.

73 de Lee, AA4GA
On Apr 23, 2013 5:35 AM, "bill_w4zv" <btippett@...> wrote:

> **
>
>
> I started building my MTR a few weeks ago and my 9 year old soldering
> station gave up the ghost. I'm now ready to go again but in the interim I
> see there have been several documentation issues discovered in the most
> current manual (dated 2 April 2013). Before I begin again:
>
> 1. Steve, will there be a second revision of the manual beyond the current
> one?
>
> 2. If not, has anyone kept track of the issues? Before I go through all
> the posts myself, has anyone already done this that would share their list?
>
> 73, Bill W4ZV
>
> --- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
> >
> > Updates:
> > Added missing R45 location and value to resistor placement page.
> > Corrected color code for 150 pfd chip caps (BRN/GRN/BRN)
> > Corrected duplicate capacitor designation in LPF componet value chart.
> >
>
>
>

11101. Re: new guy needs some help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-22 20:46:17 UTC
From: ke7ngo11
Topic: 11090 Message: 11101

I am having similar issues too. When checking for short, I am getting about 62 ohms at C20 and c37 is zero. I figured this may be okay, so I applied power and U7 gets rather warm/hot rather quickly.

Should C20 be zero ohms? What kind of hear can I expect U7 to dissipate?

I thank you in advance.
Clayton, ke7ngo

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> James,
> Look at the schematic on page 22 of the MTR_2.pdf file in the MTR folder of the files section of this group. U7 is the regulator for 5 volts, U4 is the regulator for 3.3 volts. To measure the 5 volt supply, put the black probe of your voltmeter into one of the four corner holes (they are connected to ground), and probe the plus side of C20. Measure from the plus side of C37 to check the 3.3 volt supply.
> Most problems with bringing these rigs up come down to trouble with soldering parts to the boards. Inspect everything as closely as you can, a binocular microscope is ideal, some strong drugstore reading glasses and a very bright light are almost good enough. Look for shorts, which could be just a spider's silk thickness of solder between two adjacent pins, though more likely a big glob somewhere. And look for cold solder joints, where you might get solder on the pin and solder on the pad, but they are not soldered together. I push at the pins with the tip of an exacto blade to see if they move when looking for cold solder joints.
> You will need to get the processor up to where the LED lights up before much else will happen. The processor needs to initialize the AD9834 DDS chip to get the local oscillator going before you will hear any signals in the receiver. See message 11056 for a discussion on getting the processor going.
> Good Luck!
> Jerry, KE7ER
>
>
>
> --- In AT_Sprint@yahoogroups.com, "james" <n2jfdny@> wrote:
> > ...no sound and no leds...check ...+3.5 and +5 regulators...
>

11102. Re: new guy needs some help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-23 12:34:45 UTC
From: n1rx
Topic: 11090 Message: 11102

If you are saying you used an ohmmeter across each of those capacitors to ground- then no, neither cap should read "zero ohms" or a dead short. If you read a short circuit across C37, then you probably have a short somehwere from your 3.3 v rail to ground. No, the regulators should never get hot. Remember, the entire rig only draws a few dozen mA on receive.

GL,
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "ke7ngo11" <wc.heilman@...> wrote:
>
> I am having similar issues too. When checking for short, I am getting about 62 ohms at C20 and c37 is zero. I figured this may be okay, so I applied power and U7 gets rather warm/hot rather quickly.
>
> Should C20 be zero ohms? What kind of hear can I expect U7 to dissipate?
>
> I thank you in advance.
> Clayton, ke7ngo
>
>
>
> --- In AT_Sprint@...m, "jgaffke" <jgaffke@> wrote:
> >
> > James,
> > Look at the schematic on page 22 of the MTR_2.pdf file in the MTR folder of the files section of this group. U7 is the regulator for 5 volts, U4 is the regulator for 3.3 volts. To measure the 5 volt supply, put the black probe of your voltmeter into one of the four corner holes (they are connected to ground), and probe the plus side of C20. Measure from the plus side of C37 to check the 3.3 volt supply.
> > Most problems with bringing these rigs up come down to trouble with soldering parts to the boards. Inspect everything as closely as you can, a binocular microscope is ideal, some strong drugstore reading glasses and a very bright light are almost good enough. Look for shorts, which could be just a spider's silk thickness of solder between two adjacent pins, though more likely a big glob somewhere. And look for cold solder joints, where you might get solder on the pin and solder on the pad, but they are not soldered together. I push at the pins with the tip of an exacto blade to see if they move when looking for cold solder joints.
> > You will need to get the processor up to where the LED lights up before much else will happen. The processor needs to initialize the AD9834 DDS chip to get the local oscillator going before you will hear any signals in the receiver. See message 11056 for a discussion on getting the processor going.
> > Good Luck!
> > Jerry, KE7ER
> >

> >
> >
> > --- In AT_Sprint@yahoogroups.com, "james" <n2jfdny@> wrote:
> > > ...no sound and no leds...check ...+3.5 and +5 regulators...
> >
>

11103. Re: new guy needs some help

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-23 13:58:48 UTC
From: jgaffke
Topic: 11090 Message: 11103

With rig powered off, I see around 12k across C20 and 60k across C37. May vary considerably with meter used and range it is in, but should be several thousand ohms. Get out the magnifying glass, you most likely have more than one solder short.
Jerry, KE7ER

> --- In AT_Sprint@yahoogroups.com, "ke7ngo11" <wc.heilman@> wrote:
> ...getting about 62 ohms at C20 and c37 is zero...

11104. Re: [AT_Sprint] Re: Updated MTR_2 manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-23 18:44:39 UTC
From: Lee Hiers
Topic: 10855 Message: 11104

Just saw this on FB from Steve:

In Hiawassee, GA 68 miles up the AT. Six days and a bit to get here. Temps have been brisk in the AM. Only one day of cold rain so far. Might get another soon. Time to go shopping for next leg of the hike.

On Tue, Apr 23, 2013 at 7:44 AM, Lee Hiers <lee.hiers@...> wrote:

> Steve started a 500 mile hike on the AT last week, so I don't know if
> he'll be in touch for a while or not.
>

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your totals to the unofficial QRP DXCC standings - go to *www.qrpdx.com* for more info!

11105. MTR Success

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-24 01:40:51 UTC
From: rasteenb
Topic: 11105 Message: 11105

Once I got the solder issues fixed and the MTR sprang to life, the remainder of the testing and alignment went without incident.

Today I made my first and second contacts on 20M.

RU27LU using the MTR, the WA2EUJ 50W Amp, and a vertical.
AH6LV using the MTR and the vertical.

I'm getting about 3W out with 8.5V.

Now I have to pick a mountain to climb that's within my capabilities. I am also thinking of getting a collapsible fiberglass pole to put the EFHW on.

73/72,
Rob

11106. Re: [AT_Sprint] MTR Success

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-24 02:06:09 UTC
From: Johnny Matlock
Topic: 11105 Message: 11106

Congrats Rob!
Have fun with the new toy!
72
Johnny AC0BQ

On Tuesday, April 23, 2013, rasteenb wrote:

> **
>
>
> Once I got the solder issues fixed and the MTR sprang to life, the
> remainder of the testing and alignment went without incident.
>
> Today I made my first and second contacts on 20M.
>
> RU27LU using the MTR, the WA2EUJ 50W Amp, and a vertical.
> AH6LV using the MTR and the vertical.
>
> I'm getting about 3W out with 8.5V.
>
> Now I have to pick a mountain to climb that's within my capabilities. I am
> also thinking of getting a collapsible fiberglass pole to put the EFHW on.
>
> 73/72,
> Rob
>
>
> Reply via web post<http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJyaWp0Y3N2BF9
TAzk3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAMxMTEwNQRzZWMDZnRyBHNsa
wNycGx5BHN0aW1lAzEzNjY3Njc2NTQ-?act=reply&messageNum=11105> Reply
> to sender <javascript:_e({}, 'cvml',
> 'rasteenb@...?subject\x3dRe%3A%20MTR%20Success');> Reply to group <javascript:_e({},
> 'cvml', 'AT_Sprint@yahoogroups.com?subject\x3dRe%3A%20MTR%20Success');> Start
> a New Topic<http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJmaXN0dmlrBF9TAzk3Mz
U5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNudHBjBHN0aW1lAzEzNjY3
Njc2NTQ-> Messages
> in this topic<http://groups.yahoo.com/group/AT_Sprint/message/11105;_ylc=X3oDMTM3czBqZDF
uBF9TAzk3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAMxMTEwNQRzZWMDZnRyB
HNsawN2dHBjBHN0aW1lAzEzNjY3Njc2NTQEdHBjSWQDMTExMDU->(1)
> Recent Activity:
>
> - New Members<http://groups.yahoo.com/group/AT_Sprint/members;_ylc=X3oDMTJna21pa3Y5BF9TA
zk3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2bWJycwRzdGltZQM
xMzY2NzY3NjU0?o=6>
> 5

> - New Photos<http://groups.yahoo.com/group/AT_Sprint/spnew;_ylc=X3oDMTJnNjM0c2xlBF9TAzk3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2cGhvdARzdGltZQMxMzY2NzY3NjU0>
> 1
>
> Visit Your Group<http://groups.yahoo.com/group/AT_Sprint;_ylc=X3oDMTJmbWZhY3ZoBF9TAzk3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEzNjY3Njc2NTQ->
> MARKETPLACE
> ---
> ---
>

11107. ATS-4b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-24 18:53:10 UTC
From: Mike
Topic: 11107 Message: 11107

Hello Everyone I am looking for a ATS-4b or MTR built or un-built.
Thanks
Mike
N1MB

11108. Another MTR lookin' good #248

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-24 19:42:28 UTC
From: pswarman
Topic: 11108 Message: 11108

Starting with my mistakes (now corrected)!
- U9 wrong way round.
- C37 electrolytic wrong way round (dumb or what!).
- U9 pin2 not soldered to track.
- Stood the electrolytics upright instead of on their sides!

Now the receiver is working great, receiving sub-microvolts from genny and picking up some traffic on the band.

I need to parallel that 100K resistor across BS2/R4 for 30mtr operation and then tighten up the calibration and fingers crossed another one on the air.

Thanks for the helpful postings fellas, I've followed them all.
Paul, G0odp, Dorset, UK

11109. U9 Orientation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-24 20:00:02 UTC
From: Steven Bornstein
Topic: 11109 Message: 11109

I am having difficulty identifying pin 1 of U9. One data sheet I looked at noted that pins 1,2, and 3 were slightly wider. Those would be the pins above the type printing. Any suggestions? 73, Steve K8IDN

11110. Re: U9 Orientation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-24 20:08:15 UTC
From: jgaffke
Topic: 11109 Message: 11110

See message 11011

--- In AT_Sprint@yahoogroups.com, "Steven Bornstein" <saborns@...> wrote:
>
> I am having difficulty identifying pin 1 of U9. One data sheet I looked at noted that pins 1,2, and 3 were slightly wider. Those would be the pins above the type printing. Any suggestions? 73, Steve K8IDN
>

11111. U9 orientation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-24 20:12:29 UTC
From: pswarman
Topic: 11111 Message: 11111

```
6 5 4
[--------]
[ ]
[C C 5 R ]
[o ]
[--------]
1 2 3
```

Good, at least I'm not the only person who's having difficulty with this chip. The dot identifying pin one is microscopic. But for my chip the above worked, pin 1 is under the first C of CC5R.
Looking up the pdf specifications didn't help!

I hope this is useful.
Paul, G0odp

11112. Re: U9 Orientation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-24 20:13:19 UTC
From: n1rx
Topic: 11109 Message: 11112

I am assuming you are talking about a second-run MTR kit, as that has been the bulk of the list traffic lately.

Follow Steve's advice in the instructions. There is a dot that marks pin 1, but it can be hard to see. A strong light at an angle and magnification will help. Also, if you orient the chip with the writing (CC5R) upside-down, pin one will be in the upper right hand corner.

GL, Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "Steven Bornstein" <saborns@...> wrote:
>
> I am having difficulty identifying pin 1 of U9. One data sheet I looked at noted that pins 1,2, and 3 were slightly wider. Those would be the pins above the type printing. Any suggestions? 73, Steve K8IDN
>

11113. Re: [AT_Sprint] U9 orientation

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-24 20:18:08 UTC
From: saborns@...
Topic: 11111 Message: 11113

Paul,

tnx vy much.

Steve K8IDN

Steven Bornstein K8IDN
475 E. North Broadway
Columbus, Ohio 43214
614 263-5819

In a message dated 4/24/2013 4:12:31 P.M. Eastern Daylight Time,
pswarman@... writes:

```
6 5 4
[--------]
[ ]
[C C 5 R ]
[o ]
[--------]
1 2 3
```

Good, at least I'm not the only person who's having difficulty with this
chip. The dot identifying pin one is microscopic. But for my chip the above
worked, pin 1 is under the first C of CC5R.
Looking up the pdf specifications didn't help!

I hope this is useful.
Paul, G0odp

Yahoo! Groups Links

11114. New file uploaded to AT_Sprint

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-24 20:31:44 UTC
From: AT_Sprint@yahoogroups.com
Topic: 154 Message: 11114

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the AT_Sprint
group.

File : /MTR /cc5F.JPG
Uploaded by : pswarman <pswarman@...>
Description : U9 Orientation

You can access this file at the URL:
http://groups.yahoo.com/group/AT_Sprint/files/MTR%20/cc5F.JPG

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

pswarman <pswarman@...>
```

11115. I am not getting my messages from the group.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 02:02:59 UTC
From: nicehouse101
Topic: 11115 Message: 11115

```
Can a moderator check it out for me please?
TY .....73
```

11116. BN1 power vs BN2

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-24 21:01:13 UTC
From: robjbrad
Topic: 11116 Message: 11116

Hello group, I've built my MTR second run for 40 & 20 metres
Everything works! However 20 metres put out about 80% of the power I get on 40. Looking at other posts I wonder is this by design or do I need to tinker with my toroids some more?

73 Rob 2E0ETN

11117. Re: [AT_Sprint] BN1 power vs BN2

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 02:14:57 UTC
From: Hank Greeb
Topic: 11116 Message: 11117

I get about 3 watts from my AT-Sprint with 9 VDC (nominal) power supply. The design has been changed slightly since 2003, but you should get about the same power on 20 as on 40. Tweaking the inductors is a good start.

72/73 de n8xx Hg
QRP >99.44% of the time

On 4/24/2013 5:01 PM, robjbrad wrote:
> Hello group, I've built my MTR second run for 40 & 20 metres
> Everything works! However 20 metres put out about 80% of the power I get on 40. Looking at other posts I wonder is this by design or do I need to tinker with my toroids some more?
>
> 73 Rob 2E0ETN

11118. Re: MTR User Prefs bug

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 03:09:30 UTC
From: Keith Hamilton
Topic: 9269 Message: 11118

This is incorrect in the manual for the newest run of MTR kits also.

73 Keith N8CEP

--- In AT_Sprint@yahoogroups.com, "wrmoore47" <wrmoore47@...> wrote:
>
> Maybe this has been reported before, but I believe the settings for User Preferences are reversed.
>
> - Morse on/off is Tune Down
> - Save current state is Tune Up
>
> The manual, p. 21, has these reversed.
>
> 73,
> Randy, KS4L
>

11119. MTR #238

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 03:12:04 UTC
From: Keith Hamilton
Topic: 11119 Message: 11119

MTR #238 up and running at N8CEP. Big thanks to TJ, W0EA who did the assembly for me! 73

Keith N8CEP

11120. Re: [AT_Sprint] BN1 power vs BN2

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 03:32:31 UTC
From: Gil G.
Topic: 11116 Message: 11120

Same on mine. 4.5W on 40m and 3.3W on 20m (at 11V). I haven't bothered to look into it yet, because it works fine anyway. I had a 5200 miles QSO on 40m using 1.3W (I had swapped two capacitors).. So anything above 3W is good for me.

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Apr 24, 2013, at 5:01 PM, robjbrad wrote:

> Hello group, I've built my MTR second run for 40 & 20 metres
> Everything works! However 20 metres put out about 80% of the power I get on 40. Looking at other posts I wonder is this by design or do I need to tinker with my toroids some more?
>
> 73 Rob 2E0ETN

11121. another MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 13:04:44 UTC
From: cloud runner
Topic: 11121 Message: 11121

Two things of possible interest to others ...

Thing One:

I am getting 5 watts output on both 20 and 30 meters, at eleven volts.

But, I only get 5.5 watts out at 12.5 volts.

The efficiency diminishes rapidly above 11 volts, and for my radio at least, and probably others, is not worth running over eleven volts, mostly inceases heat output, not RF output.

Thing Two:

Operating in the field, I had turned on the RIT. then I attempted to change bands with the switches.

Let it be known, you can't do that ;-) It stayed on the previous band. Also,

I did not study what was going on exhaustively, but, I returned the radio to its normal mode, and still could not get it to change bands. I finally disconnected the power, in other words, did a reset, then i could change bands fine.

73, fred - kt5x

aka WS0TA

11122. Re: [AT_Sprint] another MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 13:49:24 UTC
From: Bob Cutter
Topic: 11121 Message: 11122

Do you think this glitch is related to the resistor change recently discussed?

73, Bob

On Apr 25, 2013, at 7:04 AM, "cloud runner" <just.one.hill@gmail.com> wrote:

>
>
> Two things of possible interest to others ...
>
> Thing One:
>
> I am getting 5 watts output on both 20 and 30 meters, at eleven volts.
>
> But, I only get 5.5 watts out at 12.5 volts.
>
> The efficiency diminishes rapidly above 11 volts, and for my radio at least, and probably others, is not worth running over eleven volts, mostly inceases heat output, not RF output.
>
>
> Thing Two:
>
> Operating in the field, I had turned on the RIT. then I attempted to change bands with the switches.
>
> Let it be known, you can't do that ;-) It stayed on the previous band. Also,
>
> I did not study what was going on exhaustively, but, I returned the radio to its normal mode, and still could not get it to change bands. I finally disconnected the power, in other words, did a reset, then i could change bands fine.
>
> 73, fred - kt5x
>
> aka WS0TA
>
>
>

11123. Re: [AT_Sprint] another MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 14:13:19 UTC
From: cloud runner
Topic: 11121 Message: 11123

no. I think it has to do with the firmware, getting itself in a position from which it can't recover.

fd

-

Do you think this glitch is related to the resistor change recently discussed?

73, Bob

11124. Re: [AT_Sprint] another MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 14:20:27 UTC
From: Hank Greeb
Topic: 11121 Message: 11124

The efficiency at any voltage can be adjusted with the output filter. I have my AT-Sprint optimized for 9 volts (nominal). All it usually takes is a bit of tweaking ofthe inductors between the PA and the transmission line to the antenna or tuner.

I figured that the small amount of extra powerat 12 VDC, plus the need to be very careful about feeding a matched antenna because of possible frying of the output transistors, that it didn't make sense to optimize for 12 VDC.

72/73 de n8xx Hg
QRP >99.44% of the time

On 4/25/2013 9:49 AM, Bob Cutter wrote:
>
>
> Do you think this glitch is related to the resistor change recently
> discussed?
>
> 73, Bob
>
> On Apr 25, 2013, at 7:04 AM, "cloud runner" <just.one.hill@...
> <mailto:just.one.hill@...>> wrote:
>
>> Two things of possible interest to others ...
>> Thing One:
>> I am getting 5 watts output on both 20 and 30 meters, at eleven volts.
>> But, I only get 5.5 watts out at 12.5 volts.
>> The efficiency diminishes rapidly above 11 volts, and for my radio at
>> least, and probably others, is not worth running over eleven
>> volts, mostly inceases heat output, not RF output.
>> Thing Two:
>> Operating in the field, I had turned on the RIT. then I attempted to
>> change bands with the switches.
>> Let it be known, you can't do that ;-) It stayed on the previous
>> band. Also,
>> I did not study what was going on exhaustively, but, I returned the
>> radio to its normal mode, and still could not get it to change
>> bands. I finally disconnected the power, in other words, did a
>> reset, then i could change bands fine.
>> 73, fred - kt5x
>> aka WS0TA
>
>
>

11125. Re: another MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 15:54:05 UTC
From: jgaffke
Topic: 11121 Message: 11125

There's a lot I don't know about RF amps, but I would expect the output power to go up with the square of the voltage source. Output power would also be inversely proportional to the impedance presented by the output filter to the FET at the target frequency. Of course, real FET's have losses that increase with power, and at some point that SWR protection zener will kick in.
In the files section under KE7ER, I've posted mtr40irf510.asc, an LT-Spice schematic with DC bias at the FET gate to drive an IRF510, but otherwise the same as the MTR on 40 meters. Output at 24 volts is very nearly 4x the power at 12 volts. I haven't tried building it though. Output filter might have to be beefed up some (voltage across caps, current through inductors).
Jerry, KE7ER

11126. Re: another MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 17:14:00 UTC
From: jgaffke
Topic: 11121 Message: 11126

That transmit filter is a low pass filter. If tweaking the coils raises the output power, I'd bet it's a matter of raising the corner frequency (by reducing the inductance).
Also, if you were to try an IRF510 at 24v as suggested previously, you would more than "might" want to beef up those output filter components.
Jerry, KE7ER

11127. MTR S/N 298 arrived in Cologne/Germany

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 18:37:03 UTC
From: dk7fh
Topic: 11127 Message: 11127

I gladly receiverd my MTR kid today. Steven, thanks a lot for everthing!

Customs were passed without problems. DHL organized everything. I had to pay almost 9 Euros tax.

Assembly will have to wait because of QRL. As I just finised the ATS-3b, which by the way is great fun, I need not hurry.

Are there other hams in the German language area who build this kit -welcome for exchange of experiences.(Gibt's im deutschsprachigen Raum noch andere MTR-Bastler - bitte Rueckmeldung für Erfahrungsaustausch!).

73s, Frank, dk7fh

11128. Re: another MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-25 19:42:37 UTC
From: jgaffke
Topic: 11121 Message: 11128

Lost my bet. That's more than just a low pass filter. A quick simulation in LT Spice with coil inductances reduced 10% shows some drop in power.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> That transmit filter is a low pass filter. If tweaking the coils raises the output power, I'd bet it's a matter of raising the corner frequency (by reducing the inductance).

11129. Re: another MTR report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-26 11:39:31 UTC
From: n1rx
Topic: 11121 Message: 11129

I'm pretty sure it's a 50 ohm in/out low pass filter with a harmonic trap. That's the function of the capacitors across the coils.
Bruce, N1RX

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Lost my bet. That's more than just a low pass filter. A quick simulation in LT Spice with coil inductances reduced 10% shows some drop in power.
> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@> wrote:
> > That transmit filter is a low pass filter. If tweaking the coils raises the output power, I'd bet it's a matter of raising the corner frequency (by reducing the inductance).
>

11130. Re: BN1 power vs BN2

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-26 11:59:34 UTC
From: robjbrad
Topic: 11116 Message: 11130

I found that compressing the wires so they were denser around the top of L10 gave a far higher output. Is this because I didn't wind the toroid tight enough?

--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
>
> Same on mine. 4.5W on 40m and 3.3W on 20m (at 11V). I haven't bothered to look into it yet, because it works fine anyway. I had a 5200 miles QSO on 40m using 1.3W (I had swapped two capacitors).. So anything above 3W is good for me.
>
> Gil.
> --
> PGP Key: http://keskydee.com/gil.asc
>
> On Apr 24, 2013, at 5:01 PM, robjbrad wrote:
>
> > Hello group, I've built my MTR second run for 40 & 20 metres
> > Everything works! However 20 metres put out about 80% of the power I get on 40. Looking at other posts I wonder is this by design or do I need to tinker with my toroids some more?
> >
> > 73 Rob 2E0ETN
>

11131. Re: BN1 power vs BN2

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-26 07:49:09 UTC
From: robjbrad
Topic: 11116 Message: 11131

Bunching up the wire on L10 so that it's denser at the top yields a significant increase in output. Is this because I haven't wound the toroid tight enough? Am I changing the filters properties to the detriment of some other variable?

--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
>
> Same on mine. 4.5W on 40m and 3.3W on 20m (at 11V). I haven't bothered to look into it yet, because it works fine anyway. I had a 5200 miles QSO on 40m using 1.3W (I had swapped two capacitors).. So anything above 3W is good for me.
>
> Gil.
> --
> PGP Key: http://keskydee.com/gil.asc
>
> On Apr 24, 2013, at 5:01 PM, robjbrad wrote:
>
> > Hello group, I've built my MTR second run for 40 & 20 metres
> > Everything works! However 20 metres put out about 80% of the power I get on 40. Looking at other posts I wonder is this by design or do I need to tinker with my toroids some more?
> >
> > 73 Rob 2E0ETN
>

11133. Re: [AT_Sprint] unsubscribe

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-27 02:08:36 UTC
From: Mike WA8BXN
Topic: 11132 Message: 11133
Attachments: 2 described; binary payloads are missing from this source WARC

It doesn't work that way! Click the link at the bottom of any message to unsubscribe.

-------Original Message-------

From: Charles Strong
Date: 04/26/13 22:02:37
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] unsubscribe

unsubscribe

11134. Re: unsubscribe

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-27 12:46:24 UTC
From: ve3wmb
Topic: 11132 Message: 11134

Also ... as an option to unsubscribing you can change your delivery settings to Digest which will give you about one email per day from this group with all of the postings bundled together or you can also choose to not receive any emails at all and just read the postings from the group on the web.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, Mike WA8BXN <hubby2k@...> wrote:
>
> It doesn't work that way! Click the link at the bottom of any message to
> unsubscribe.
>
>
>
>
> -------Original Message-------
>
> From: Charles Strong
> Date: 04/26/13 22:02:37
> To: AT_Sprint@yahoogroups.com
> Subject: [AT_Sprint] unsubscribe
>
>
> unsubscribe
>

11135. Re: [AT_Sprint] Re: unsubscribe

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-27 13:46:41 UTC
From: nicehouse101@...
Topic: 11132 Message: 11135

It was fixed after the reset from the mod.
Thank you for your help. 73

From: ve3wmb <mbabineau@...>
To: AT_Sprint@yahoogroups.com
Sent: Saturday, April 27, 2013 5:46 AM
Subject: [AT_Sprint] Re: unsubscribe

Also ... as an option to unsubscribing you can change your delivery settings to Digest which will give you about one email per day from this group with all of the postings bundled together or you can also choose to not receive any emails at all and just read the postings from the group on the web.

Michael VE3WMB

--- In mailto:AT_Sprint%40yahoogroups.com, Mike WA8BXN <hubby2k@...> wrote:
>
> It doesn't work that way! Click the link at the bottom of any message to
> unsubscribe.
>
>
>
>
> -------Original Message-------
>
> From: Charles Strong
> Date: 04/26/13 22:02:37
> To: mailto:AT_Sprint%40yahoogroups.com
> Subject: [AT_Sprint] unsubscribe
>
>
> unsubscribe
>

11136. build my kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-28 09:23:31 UTC
From: Kieran D
Topic: 11136 Message: 11136

Does anyone feel like building an ATS-4b?

11137. Re: [AT_Sprint] build my kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-28 12:16:49 UTC
From: Alan Dove
Topic: 11136 Message: 11137

Kieran:

Sure, if I get to keep it. But that probably isn't what you meant.

- Alan (N3IMU)

Alan Dove, Ph.D.
917.273.0544
alandove.com

On Apr 28, 2013, at 5:23 AM, "Kieran D" <kieran2230@...> wrote:

> Does anyone feel like building an ATS-4b?
>

11138. MTR2 Power Output

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-28 16:02:12 UTC
From: jonesr_99
Topic: 11138 Message: 11138

When testing my completed MTR2, I had 5+ watts out on 40mtr with a 12volt supply, but only 2 watts on 20mtr. I tried bunching and spacing the turns on L10 and L11, but that made no difference. I rewound L10 with 10 turns, and that lowered the output to less than 2 watt. I then rewound L10 again with 12 turns, and that made the difference, I now have 5+ watts out on both 40 and 20. It worked for me, your results may be different.

Ron
W9RCJ

11139. Re: [AT_Sprint] MTR2 Power Output

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-28 21:51:12 UTC
From: Earle Craig
Topic: 11138 Message: 11139

Very interesting, Ron.

Theoretically, using the Toroid Inductance Calculator program by K1QW at http://lcbsystems.com/InduCalc.html you increased the inductance of L10 from 520nH to 619nH. Then, using TINA to model the whole 20M TX Lowpass Filter, you pushed the -3dB point out from approximately 14.25MHz to approximately 15.1MHz, thus, making it very possible that you moved your operating frequency off the downward curve of the Lowpass Filter to the portion just before it turns down, even giving yourself around 3dB of extra power out, i.e., twice the power out than before. This seems right in the light of your measuring an increase from 2 watts to 5 watts.

Am I looking at this whole thing correctly, everyone?

And, Ron, did you get a chance to measure the inductance of L10 with both 11 turns and 12 turns before you installed it, because I find all the time that the actual inductance can vary quite a bit from the calculated inductance. BTW, I use an L/C Meter IIB by Almost All Digital Electronics at http://www.aade.com/lcmeter.htm

It would be interesting to know exactly what inductance Steve had calculated for L10 and that 11 turns of a T30-2 powdered iron toroid is therefore supposed to produce.

Earle
AB6WL

On Apr 28, 2013, at 9:02 AM, jonesr_99 wrote:

When testing my completed MTR2, I had 5+ watts out on 40mtr with a 12volt supply, but only 2 watts on 20mtr. I tried bunching and spacing the turns on L10 and L11, but that made no difference. I rewound L10 with 10 turns, and that lowered the output to less than 2 watt. I then rewound L10 again with 12 turns, and that made the difference, I now have 5+ watts out on both 40 and 20. It worked for me, your results may be different.

Ron
W9RCJ

11140. Re: build my kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-29 05:51:22 UTC
From: Kieran D
Topic: 11136 Message: 11140

I didn't know. I have had this kit sitting in a drawer for a year and I haven't done anything with it so I thought I'd throw it out there. My intention was to use it for field day or some other contests. I'd like to use it, but I've been very busy trying to learn how to be a Nurse.

--- In AT_Sprint@yahoogroups.com, Alan Dove <alan.dove@...> wrote:

>

> Kieran:

>

> Sure, if I get to keep it. But that probably isn't what you meant.

>

> - Alan (N3IMU)

>

> Alan Dove, Ph.D.

> 917.273.0544

> alandove.com

>

> On Apr 28, 2013, at 5:23 AM, "Kieran D" <kieran2230@...> wrote:

>

> > Does anyone feel like building an ATS-4b?

> >

>

11141. Re: build my kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-29 10:15:37 UTC
From: ab6wl
Topic: 11136 Message: 11141

Well, Kieran, I'll jump in here and say that if you ever decide to sell the ATS-4b instead, I will be glad to buy it from you.

Earle
AB6WL

--- In AT_Sprint@yahoogroups.com, "Kieran D" <kieran2230@...> wrote:
>
>
> I didn't know. I have had this kit sitting in a drawer for a year and I haven't done anything with it so I thought I'd throw it out there. My intention was to use it for field day or some other contests. I'd like to use it, but I've been very busy trying to learn how to be a Nurse.
> --- In AT_Sprint@yahoogroups.com, Alan Dove <alan.dove@> wrote:
> >
> > Kieran:
> >
> > Sure, if I get to keep it. But that probably isn't what you meant.
> >
> > - Alan (N3IMU)
> >
> > Alan Dove, Ph.D.
> > 917.273.0544
> > alandove.com
> >
> > On Apr 28, 2013, at 5:23 AM, "Kieran D" <kieran2230@> wrote:
> >
> > > Does anyone feel like building an ATS-4b?
> > >
> >
>

11142. Re: [AT_Sprint] Re: build my kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-29 11:14:52 UTC
From: Alan Dove
Topic: 11136 Message: 11142

Earle:

I already called dibs and emailed him privately. Kieran, if you keep this thread going much longer you may start a riot. There's ample demand for these out-of-production kits.

- Alan (N3IMU)

Alan Dove, Ph.D.
917.273.0544
alandove.com

On Apr 29, 2013, at 6:15 AM, "ab6wl" <ecraig@...> wrote:

> Well, Kieran, I'll jump in here and say that if you ever decide to sell the ATS-4b instead, I will be glad to buy it from you.
>
> Earle
> AB6WL

11143. Re: MTR2 Power Output

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-29 12:42:29 UTC
From: jonesr_99
Topic: 11138 Message: 11143

Did not measure inductance prior to installation.

--- In AT_Sprint@yahoogroups.com, Earle Craig <ecraig@...> wrote:
>
> Very interesting, Ron.
>
> Theoretically, using the Toroid Inductance Calculator program by K1QW at http://lcbsystems.com/InduCalc.html you increased the inductance of L10 from 520nH to 619nH. Then, using TINA to model the whole 20M TX Lowpass Filter, you pushed the -3dB point out from approximately 14.25MHz to approximately 15.1MHz, thus, making it very possible that you moved your operating frequency off the downward curve of the Lowpass Filter to the portion just before it turns down, even giving yourself around 3dB of extra power out, i.e., twice the power out than before. This seems right in the light of your measuring an increase from 2 watts to 5 watts.
>
> Am I looking at this whole thing correctly, everyone?
>
> And, Ron, did you get a chance to measure the inductance of L10 with both 11 turns and 12 turns before you installed it, because I find all the time that the actual inductance can vary quite a bit from the calculated inductance. BTW, I use an L/C Meter IIB by Almost All Digital Electronics at http://www.aade.com/lcmeter.htm
>
> It would be interesting to know exactly what inductance Steve had calculated for L10 and that 11 turns of a T30-2 powdered iron toroid is therefore supposed to produce.
>
> Earle
> AB6WL
>
>
> On Apr 28, 2013, at 9:02 AM, jonesr_99 wrote:
>
> When testing my completed MTR2, I had 5+ watts out on 40mtr with a 12volt supply, but only 2 watts on 20mtr. I tried bunching and spacing the turns on L10 and L11, but that made no difference. I rewound L10 with 10 turns, and that lowered the output to less than 2 watt. I then rewound L10 again with 12 turns, and that made the difference, I now have 5+ watts out on both 40 and 20. It worked for me, your results may be different.
>
> Ron
> W9RCJ
>

11144. Re: [AT_Sprint] Re: build my kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-29 14:01:13 UTC
From: Earle Craig
Topic: 11136 Message: 11144

Alan,

Very good. Thanks for letting me know.

All the best,

Earle

On Apr 29, 2013, at 4:14 AM, Alan Dove wrote:

Earle:

I already called dibs and emailed him privately. Kieran, if you keep this thread going much longer you may start a riot. There's ample demand for these out-of-production kits.

- Alan (N3IMU)

Alan Dove, Ph.D.
917.273.0544
alandove.com

On Apr 29, 2013, at 6:15 AM, "ab6wl" <ecraig@...> wrote:

> Well, Kieran, I'll jump in here and say that if you ever decide to sell the ATS-4b instead, I will be glad to buy it from you.
>
> Earle
> AB6WL

11145. KK5PY Micro Paddle - a few left

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-29 14:46:12 UTC
From: Etienne Scott
Topic: 11145 Message: 11145

(Pardon the cross posting - I wanted to give the AT-S and MTR folks a chance at this.)
Dennis-KK5PY has a few of his micro paddles left - no more parts means that this may be the last. With the attached cable it weighs in about 1/3 of an ounce and the paddle and cable fit easily into a 35mm film canister.

He is selling his micro paddles for $40 plus $5 for US shipping. I've been trying out paddle #17 and used it during QRPTTF. You hold it with the fingers from one hand and operate it with the lightest touch from the other hand. It is well made and travels best in its film canister.

Short clips of micro paddle with MTR - http://www.youtube.com/watch?v=rKTjC_yVXBw
Historic reviews here: http://www.eham.net/reviews/detail/1761
http://qrp.kd4ab.org/2001/010812/0002.html
Find a photo here: http://www.njqrp.org/keys-paddles/
Another photo here:
http://www.pnwsota.org/blog/k7atn/2013-april-15/spencer-butte-or-apr-2013

You can reach Dennis at kk5py (at) neok dot com

He may do PayPal - check with him first.

Dennis Foster - KK5PY
300 N Maple Ave
Commerce, OK 74339

It's a great little key - probably just about perfect for any of Steve Weber's rigs.

73s,
Etienne-K7ATN

11146. Re: build my kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-04-29 21:13:39 UTC
From: Kieran D
Topic: 11136 Message: 11146

I really want to use it for contests and stuff. I didn't know there was such a demand. I just think I'm a little unprepared to put it together.
--- In AT_Sprint@yahoogroups.com, Alan Dove <alan.dove@...> wrote:
>
> Earle:
>
> I already called dibs and emailed him privately. Kieran, if you keep this thread going much longer you may start a riot. There's ample demand for these out-of-production kits.
>
> - Alan (N3IMU)
>
> Alan Dove, Ph.D.
> 917.273.0544
> alandove.com
>
> On Apr 29, 2013, at 6:15 AM, "ab6wl" <ecraig@...> wrote:
>
> > Well, Kieran, I'll jump in here and say that if you ever decide to sell the ATS-4b instead, I will be glad to buy it from you.
> >
> > Earle
> > AB6WL
>

11147. KD1JV Hike Update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-01 18:10:44 UTC
From: tzmitch
Topic: 11147 Message: 11147

I ran into Steve this afternoon at the Nantahala Outdoor Center on the AT near Bryson City, NC. That puts him almost 60 miles into North Carolina and he has a pretty mean climb up to Cheoah Bald before the day is through. Certainly seemed to be enjoying himself and was fixing to dive into one of the big burgers they have at the restaurant there. We explained ham radio and SOTA to a bystander.

73
Tommy
W4TZM

11148. Re: KD1JV Hike Update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 06:22:59 UTC
From: ae5xae5x
Topic: 11147 Message: 11148

You may have to translate that phrase for northern readers.

John AE5X

--- In AT_Sprint@yahoogroups.com, "tzmitch" <tzmitch@...> wrote:
>
and was fixing to.....

>73
> Tommy
> W4TZM
>

11149. Re: KD1JV Hike Update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 12:35:09 UTC
From: Arthur Ripple
Topic: 11147 Message: 11149

what do you mean by THAT?

11150. Re: [AT_Sprint] KD1JV Hike Update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 13:29:46 UTC
From: Tommy Mitchell
Topic: 11147 Message: 11150

Google translates "fixing to" as "getting ready to" in Southern.

73, y'all.

Tommy W4TZM

On May 2, 2013, at 2:22 AM, ae5xae5x <ae5x@...> wrote:

> You may have to translate that phrase for northern readers.
>
> John AE5X
>
> --- In AT_Sprint@yahoogroups.com, "tzmitch" <tzmitch@...> wrote:
> >
> and was fixing to.....
>
> >73
> > Tommy
> > W4TZM
> >
>
>

11151. Re: KD1JV Hike Update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 14:21:36 UTC
From: dipoley
Topic: 11147 Message: 11151

Shucks I even know what "read up" means.
Mike from Apalachin,NY,,, and yes I spelled it right

--- In AT_Sprint@yahoogroups.com, Tommy Mitchell <tzmitch@...> wrote:
>
> Google translates "fixing to" as "getting ready to" in Southern.
>
> 73, y'all.
>
> Tommy W4TZM
>
> On May 2, 2013, at 2:22 AM, ae5xae5x <ae5x@...> wrote:
>
> > You may have to translate that phrase for northern readers.
> >
> > John AE5X
> >
> > --- In AT_Sprint@yahoogroups.com, "tzmitch" <tzmitch@> wrote:
> > >
> > and was fixing to.....
> >
> > >73
> > > Tommy
> > > W4TZM
> > >
> >
> >
>

11152. Re: [AT_Sprint] Re: KD1JV Hike Update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 14:38:27 UTC
From: Mike
Topic: 11147 Message: 11152

Let's not forget to include the basic's that you'll need here in the South.

back'ayre
up'ayre
down'ayre
ov'ayre
been'ayre
them'thar
yonder can be substituted ;)

Mike
N1MB

On 5/2/2013 9:21 AM, dipoley wrote:
>
> Shucks I even know what "read up" means.
> Mike from Apalachin,NY,,, and yes I spelled it right
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>,
> Tommy Mitchell <tzmitch@...> wrote:
> >
> > Google translates "fixing to" as "getting ready to" in Southern.
> >
> > 73, y'all.
> >
> > Tommy W4TZM
> >
> > On May 2, 2013, at 2:22 AM, ae5xae5x <ae5x@...> wrote:
> >
> > > You may have to translate that phrase for northern readers.
> > >
> > > John AE5X
> > >
> > > --- In AT_Sprint@yahoogroups.com
> <mailto:AT_Sprint%40yahoogroups.com>, "tzmitch" <tzmitch@> wrote:
> > > >
> > > and was fixing to.....
> > >
> > > >73
> > > > Tommy
> > > > W4TZM
> > > >
> > >
> > >
> >
>

>

11153. RE: [AT_Sprint] Re: KD1JV Hike Update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 16:13:07 UTC
From: Dale Putnam
Topic: 11147 Message: 11153

What's this "you'll" you speak of... thought it was "y'all"????? C U round

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
CC: mgazy@...
From: mike@...
Date: Thu, 2 May 2013 09:38:27 -0500
Subject: Re: [AT_Sprint] Re: KD1JV Hike Update

Let's not forget to include the basic's
that you'll need here in the South.

back'ayre

up'ayre

down'ayre

ov'ayre

been'ayre

them'thar

yonder can be substituted ;)

Mike

N1MB

On 5/2/2013 9:21 AM, dipoley wrote:

Shucks I even know what "read up" means.

Mike from Apalachin,NY,,, and yes I spelled it right

--- In AT_Sprint@yahoogroups.com,
Tommy Mitchell <tzmitch@...> wrote:

>

> Google translates "fixing to" as "getting ready to"
in Southern.

>

> 73, y'all.

>

> Tommy W4TZM

>

> On May 2, 2013, at 2:22 AM, ae5xae5x <ae5x@...>
wrote:

>

> > You may have to translate that phrase for
northern readers.

> >

> > John AE5X

> >

> > --- In AT_Sprint@yahoogroups.com,
"tzmitch" <tzmitch@> wrote:

> > >

> > and was fixing to.....

> >

> > >73

> > > Tommy

> > > W4TZM

> > >

> >

> >

>

11154. Re: [AT_Sprint] Re: KD1JV Hike Update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 16:17:18 UTC
From: Mike
Topic: 11147 Message: 11154

Ha Ha Ha too funny!

Mike
N1MB
On 5/2/2013 11:13 AM, Dale Putnam wrote:
>
> What's this "you'll" you speak of... thought it was "y'all"?????
>
> C U round
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> ---
> To: AT_Sprint@yahoogroups.com
> CC: mgazy@...
> From: mike@...
> Date: Thu, 2 May 2013 09:38:27 -0500
> Subject: Re: [AT_Sprint] Re: KD1JV Hike Update
>
> Let's not forget to include the basic's that you'll need here in the
> South.
>
> back'ayre
> up'ayre
> down'ayre
> ov'ayre
> been'ayre
> them'thar
> yonder can be substituted ;)
>
> Mike
> N1MB
>
>
> On 5/2/2013 9:21 AM, dipoley wrote:
>
> Shucks I even know what "read up" means.
> Mike from Apalachin,NY,,, and yes I spelled it right
>

> --- In AT_Sprint@yahoogroups.com
> <mailto:AT_Sprint%40yahoogroups.com>, Tommy Mitchell <tzmitch@...>
> <mailto:tzmitch@...> wrote:
> >
> > Google translates "fixing to" as "getting ready to" in Southern.
> >
> > 73, y'all.
> >
> > Tommy W4TZM
> >
> > On May 2, 2013, at 2:22 AM, ae5xae5x <ae5x@...>
> <mailto:ae5x@...> wrote:
> >
> > > You may have to translate that phrase for northern readers.
> > >
> > > John AE5X
> > >
> > > --- In AT_Sprint@yahoogroups.com
> <mailto:AT_Sprint%40yahoogroups.com>, "tzmitch" <tzmitch@> wrote:
> > > >
> > > and was fixing to.....
> > >
> > > >73
> > > > Tommy
> > > > W4TZM
> > > >
> > >
> > >
> >
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>

11155. Re: KD1JV Hike Update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 16:38:45 UTC
From: scott
Topic: 11147 Message: 11155

don't forget ...

down the road a piece

73
scott w5ese

--- In AT_Sprint@yahoogroups.com, Mike <mike@...> wrote:
>
> Let's not forget to include the basic's that you'll need here in the South.
>
> back'ayre
> up'ayre
> down'ayre
> ov'ayre
> been'ayre
> them'thar
> yonder can be substituted ;)
>
> Mike
> N1MB
>
>
> On 5/2/2013 9:21 AM, dipoley wrote:
> >
> > Shucks I even know what "read up" means.
> > Mike from Apalachin,NY,,, and yes I spelled it right
> >
> > --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>,
> > Tommy Mitchell <tzmitch@> wrote:
> > >
> > > Google translates "fixing to" as "getting ready to" in Southern.
> > >
> > > 73, y'all.
> > >
> > > Tommy W4TZM
> > >
> > > On May 2, 2013, at 2:22 AM, ae5xae5x <ae5x@> wrote:
> > >
> > > > You may have to translate that phrase for northern readers.
> > > >
> > > > John AE5X
> > > >
> > > > --- In AT_Sprint@yahoogroups.com
> > <mailto:AT_Sprint%40yahoogroups.com>, "tzmitch" <tzmitch@> wrote:
> > > > >

> > > > and was fixing to.....
> > > >
> > > > >73
> > > > > Tommy
> > > > > W4TZM
> > > > >
> > > >
> > > >
> > >
> >
> >
>

11156. KD1JV Hike Particulars?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 16:56:03 UTC
From: Hank Greeb
Topic: 11147 Message: 11156

I must have missed something. Even a search back to early April in this forum I can't find any info on where Steve is/was intending to travel along the Appalachian Trail. Anyone know more details?

Note that I'm not about to try a hike on such a trail. I'm up to about 2 miles every other day along the quite flat Fred Meijer White Pine Linear Park Trail which is built on a former railroad bed. Maximum grade is something like 3%, and most of the time the grade is <1%. A few years back I routinely did 6 miles or more every other day on this and similar trails, but I sloughed off during the winter of 2011/12 and my legs don't work all that well any more.

I do like to take my AT-Sprint (original version) and set up along the trail. There are plenty of "naturally occurring antenna supports" along the trail, and many parts have beautiful scenery, even close to civilization of cities and towns.

I surely admire the folks who travel along the "major" trails like the Appalachian trail, etc.

72/73 de n8xx Hg
QRP >99.44% of the time

11157. Re: [AT_Sprint] KD1JV Hike Particulars?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 17:29:57 UTC
From: Michael Harnage
Topic: 11147 Message: 11157

http://www.trailjournals.com/entry.cfm?trailname=14782

>_____
> From: Hank Greeb <n8xx@...>
>To: AT_Sprint@yahoogroups.com
>Sent: Thursday, May 2, 2013 12:56 PM
>Subject: [AT_Sprint] KD1JV Hike Particulars?
>
>
>
>
>
>
>

Anyone know more details?
>
>

11158. Re: [AT_Sprint] KD1JV Hike Particulars?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 17:31:22 UTC
From: Lee Hiers
Topic: 11147 Message: 11158

I don't know if Steve posted it on the list or not, but he'd sent me a message on Facebook a couple months back, and is periodically giving updates on his FB page. Actually, though, I think he did mention here on the list that he wanted to get the MTRs out before he went on his hike.

Basically, he set out from Springer Mtn. on about 4/17 and is looking to put in about 500 miles.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

On Thu, May 2, 2013 at 12:56 PM, Hank Greeb <n8xx@...> wrote:
>
> I must have missed something. Even a search back to early April in
> this forum I can't find any info on where Steve is/was intending to travel
> along the Appalachian Trail. Anyone know more details?
>

11159. Re: [AT_Sprint] KD1JV Hike Particulars?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-02 22:19:21 UTC
From: Hank Greeb
Topic: 11147 Message: 11159

Thanks. I'll also lookup Steve on Facbebook.

72/73 de n8xx Hg
QRP >99.44% of the time

On 5/2/2013 1:29 PM, Michael Harnage wrote:
>
>
> http://www.trailjournals.com/entry.cfm?trailname=14782
>
> ----------
> *From:* Hank Greeb <n8xx@...>
> *To:* AT_Sprint@yahoogroups.com
> *Sent:* Thursday, May 2, 2013 12:56 PM
> *Subject:* [AT_Sprint] KD1JV Hike Particulars?
>
>
>
> Anyone know more details?
>
>
>
>

11160. Re: [AT_Sprint] Re: KD1JV Hike Update

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 01:44:34 UTC
From: Rich
Topic: 11147 Message: 11160

Y'all sure are piddling round her'ar,
wine ch'all qwit yer fiddlin' an git back to busyness
n' shinny up thet thar hill yonder likity split now
so's we'uns ken lisn ta thet CW music!

Rich
NU6T

On 5/2/2013 7:38 AM, Mike wrote:
>
> Let's not forget to include the basic's that you'll need here in the
> South.
>
> back'ayre
> up'ayre
> down'ayre
> ov'ayre
> been'ayre
> them'thar
> yonder can be substituted ;)
>
> Mike
> N1MB
>
>
> On 5/2/2013 9:21 AM, dipoley wrote:
>>
>> Shucks I even know what "read up" means.
>> Mike from Apalachin,NY,,, and yes I spelled it right
>>
>> --- In AT_Sprint@yahoogroups.com
>> <mailto:AT_Sprint%40yahoogroups.com>, Tommy Mitchell <tzmitch@...> wrote:
>> >
>> > Google translates "fixing to" as "getting ready to" in Southern.
>> >
>> > 73, y'all.
>> >
>> > Tommy W4TZM
>> >
>> > On May 2, 2013, at 2:22 AM, ae5xae5x <ae5x@...> wrote:
>> >
>> > > You may have to translate that phrase for northern readers.
>> > >
>> > > John AE5X
>> > >

>> > > --- In AT_Sprint@yahoogroups.com
>> <mailto:AT_Sprint%40yahoogroups.com>, "tzmitch" <tzmitch@> wrote:
>> > > >
>> > > and was fixing to.....
>> > >
>> > > >73
>> > > > Tommy
>> > > > W4TZM
>> > > >
>> > >
>> > >
>> >
>>
>
>

11161. MTR_2 SN/292 PCB errata at L12 land

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 01:17:08 UTC
From: jr1kda_ag6gt
Topic: 11161 Message: 11161

My MTR_2 SN/292 PCB has one errata at L12 land.
I post three photo about this errata in Photos named "MTR_2 SN/292 PCB errata at L12".

When I finished to build my MTR, I tried to check and test. After checking my MTR, I tried to send CW signal. But I got no signal on 40m band. Also I checked 20m band. MTR is sending 20m band signal with 1 watt at 12V. I check the out put filter circuit. I found that out put line is connected to the ground.

I dismount L12, C57 and C75. But there is still short circuit. Finally I found the PCB errata about L12 land. You can see two photos in Photos area.
http://xa.yimg.com/kq/groups/18035723/sn/1409089619/name/Image1-c.jpg
http://xa.yimg.com/kq/groups/18035723/sn/1103280809/name/Image2-c.jpg

I repair the PCB errata.
http://xa.yimg.com/kq/groups/18035723/sn/1093645159/name/Image3-c.jpg

I rebuild the out put filter circuit for 40m band.
I got the out put signal from MTR on 40m band.

I think for low out put from my MTR at 12V.
Perhaps some BS170s was died when I send the signal on 40m band first time.
I already order new BS170 at online shop. I will replace the all BS170.

73 JR1KDA/AG6GT

11162. Re: MTR_2 SN/292 PCB errata at L12 land

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 12:35:57 UTC
From: robjbrad
Topic: 11161 Message: 11162

This link on testing BS170 might help:
https://sites.google.com/site/g4zfqradio/matching-bs170-for-softrock

--- In AT_Sprint@yahoogroups.com, "jr1kda_ag6gt" <ktm@...> wrote:
>
> My MTR_2 SN/292 PCB has one errata at L12 land.
> I post three photo about this errata in Photos named "MTR_2 SN/292 PCB errata at L12".
>
> When I finished to build my MTR, I tried to check and test. After checking my MTR, I tried to send CW signal. But I got no signal on 40m band. Also I checked 20m band. MTR is sending 20m band signal with 1 watt at 12V. I check the out put filter circuit. I found that out put line is connected to the ground.
>
> I dismount L12, C57 and C75. But there is still short circuit. Finally I found the PCB errata about L12 land. You can see two photos in Photos area.
> http://xa.yimg.com/kq/groups/18035723/sn/1409089619/name/Image1-c.jpg
> http://xa.yimg.com/kq/groups/18035723/sn/1103280809/name/Image2-c.jpg
>
> I repair the PCB errata.
> http://xa.yimg.com/kq/groups/18035723/sn/1093645159/name/Image3-c.jpg
>
> I rebuild the out put filter circuit for 40m band.
> I got the out put signal from MTR on 40m band.
>
> I think for low out put from my MTR at 12V.
> Perhaps some BS170s was died when I send the signal on 40m band first time.
> I already order new BS170 at online shop. I will replace the all BS170.
>
> 73 JR1KDA/AG6GT
>

11163. Re: [AT_Sprint] MTR_2 SN/292 PCB errata at L12 land

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 12:43:23 UTC
From: Charles Nolin
Topic: 11161 Message: 11163

Hello,

Very good job in finding your short.
Thanks for the heads up.
Chuck

From: jr1kda_ag6gt <ktm@...-net.ne.jp>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, May 2, 2013 9:17 PM
Subject: [AT_Sprint] MTR_2 SN/292 PCB errata at L12 land

My MTR_2 SN/292 PCB has one errata at L12 land.
I post three photo about this errata in Photos named "MTR_2 SN/292 PCB errata at L12".

When I finished to build my MTR, I tried to check and test. After checking my MTR, I tried to send CW signal. But I got no signal on 40m band. Also I checked 20m band. MTR is sending 20m band signal with 1 watt at 12V. I check the out put filter circuit. I found that out put line is connected to the ground.

I dismount L12, C57 and C75. But there is still short circuit. Finally I found the PCB errata about L12 land. You can see two photos in Photos area.
http://xa.yimg.com/kq/groups/18035723/sn/1409089619/name/Image1-c.jpg
http://xa.yimg.com/kq/groups/18035723/sn/1103280809/name/Image2-c.jpg

I repair the PCB errata.
http://xa.yimg.com/kq/groups/18035723/sn/1093645159/name/Image3-c.jpg

I rebuild the out put filter circuit for 40m band.
I got the out put signal from MTR on 40m band.

I think for low out put from my MTR at 12V.
Perhaps some BS170s was died when I send the signal on 40m band first time.
I already order new BS170 at online shop. I will replace the all BS170.

73 JR1KDA/AG6GT

11164. Re: KD1JV Hike Particulars?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 13:42:22 UTC
From: brianpepperdine
Topic: 11147 Message: 11164

Yes, the Appalachian Trail DOES seem to be an achievement to do.
Unless I am wrong, it does also tend to be something that is so draining that Steve might not be using his own radio gear on this kind of hike - reserving activity for less straining hike closer to home?

As an aside, I have hiked some some small parts of the AT. It DOES interest me and I do hope to do a good part of it after I retire from the first career.
I've read a number of books on doing the AT - a blind fellow with his guide dog; Bill Bryson's book (he was HARDLY prepared for it); Dennis Blanchard's book (300 Zeroes) on his hike/ham radio (he had to stop for a while and do recuperative heart surgery and then return to the AT healthier and lighter).

Up hereabouts we have the Bruce Trail... which is 560 miles long
and is a UN Bioheritage Site.

http://en.wikipedia.org/wiki/Bruce_Trail

I hike it quite a bit in sections, but usually only day hikes for now and with the dogs and 8 year old niece and wife, so no ham radio. But I will be trying out some hiking/SOTA ideas for future endeavours this summer and might us the Bruce Trail for some of the testing.

enjoy and be safe outdoors

Brien
VE3VAW

--- In AT_Sprint@yahoogroups.com, Hank Greeb <n8xx@...> wrote:
>
>
> Note that I'm not about to try a hike on such a trail. I'm up to about
> 2 miles every other day along the quite flat Fred Meijer White Pine
> Linear Park Trail which is built on a former railroad bed. Maximum grade
> is something like 3%,
>
> I do like to take my AT-Sprint (original version) and set up along the
> trail.

11165. 10 Year ATS Anniversary!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 14:58:11 UTC
From: ohwenzelph
Topic: 11165 Message: 11165

"You all" may celebrate as you choose!

Ten years ago Steve showed me the original, it was a Hosstraders day, NEARfest now, same day that the Old Man In the Mountain fell (may he rest in pieces...) Source/inspiration for the original were surface mount parts that came from satellite TV boxes fished out of the trash when one company bought out another and all the subscribers boxes got replaced.

Its been fun and the time has flown.

72/73
jerry aa1of
franconia, nh

11166. Re: [AT_Sprint] 10 Year ATS Anniversary!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 15:03:08 UTC
From: Bob Cutter
Topic: 11165 Message: 11166

I visited Steve in Berlin a day or two before.

I still have my first ATS in an Altoids, if you are interested in it contact me off list.

72, Bob KIØG

On May 3, 2013, at 8:58 AM, "ohwenzelph" <ohwenzelph@...> wrote:

> "You all" may celebrate as you choose!
>
> Ten years ago Steve showed me the original, it was a Hosstraders day, NEARfest now, same day that the Old Man In the Mountain fell (may he rest in pieces...) Source/inspiration for the original were surface mount parts that came from satellite TV boxes fished out of the trash when one company bought out another and all the subscribers boxes got replaced.
>
> Its been fun and the time has flown.
>
> 72/73
> jerry aa1of
> franconia, nh
>
>
>
>
> ---
>
> Yahoo! Groups Links
>
>
>

11167. Re: [AT_Sprint] 10 Year ATS Anniversary!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 16:02:16 UTC
From: Bob Cutter
Topic: 11165 Message: 11167

I also drove by and saw the Old Man on the way to Berlin, NH.

72, Bob KIØG

On May 3, 2013, at 9:03 AM, Bob Cutter <ki0g@...> wrote:

> I visited Steve in Berlin a day or two before.
>
> I still have my first ATS in an Altoids, if you are interested in it contact me off list.
>
> 72, Bob KIØG
>
> On May 3, 2013, at 8:58 AM, "ohwenzelph" <ohwenzelph@yahoo.com> wrote:
>
>> "You all" may celebrate as you choose!
>>
>> Ten years ago Steve showed me the original, it was a Hosstraders day, NEARfest now, same day that the Old Man In the Mountain fell (may he rest in pieces...) Source/inspiration for the original were surface mount parts that came from satellite TV boxes fished out of the trash when one company bought out another and all the subscribers boxes got replaced.
>>
>> Its been fun and the time has flown.
>>
>> 72/73
>> jerry aa1of
>> franconia, nh
>>
>>
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>> ------------------------------------
>>
>> Yahoo! Groups Links
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> Yahoo! Groups Links
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>

11168. Re: [AT_Sprint] KD1JV Hike Particulars?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 16:49:45 UTC
From: Tommy Mitchell
Topic: 11147 Message: 11168

On May 3, 2013, at 9:42 AM, brianpepperdine <brianpepperdine@...> wrote:

> Yes, the Appalachian Trail DOES seem to be an achievement to do.
> Unless I am wrong, it does also tend to be something that is so draining that Steve might not be using his own radio gear on this kind of hike - reserving activity for less straining hike closer to home?
>
>

He reported to another guy and me that he doesn't have a radio since that leaves more room for Snickers bars. Priorities….

Tommy
W4TZM

11169. Re: [AT_Sprint] 10 Year ATS Anniversary!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 19:19:10 UTC
From: Hank Greeb
Topic: 11165 Message: 11169

Shall we schedule an "Original AT-Sprint" QSO Party)? Lessee, everyone with a rig designed by Steve gets a multiplier. Everyone astuteenough to have one of the 50 or so "Original AT-Sprint" versions getsanother multiplier (larger). Folkswho went out on a trail would getabonus multiplier. Folkswho took their original AT-Sprint out on a trailwould get a million point bonus in addition to the bonus multiplier. All the otherswould be welcome to jointhe fracas, but receives a multiplier of zero or-1 (negativeone) :)

Sorta like the QSO Party after the 2006 (or 2007) FDIM where we folks who were brave enough to make a 300 milliwatt transmitter got on the air one afternoon for a couple hours and tried to contact others with the same rig, and answered folks who were calling us.

The "Original AT-Sprint" QSO Party" would bea low key event, wemight even take a hint from WB3AAL and his "Grizzly Polar Bear Organization," and take pictures of ourselves eating salmon sandwiches and posting them on the "Original AT-Sprint" QSO Party" web site, wherever that might be.

72/73 de n8xx Hg
QRP >99.44% of the time

On 5/3/2013 11:03 AM, Bob Cutter wrote:
> I visited Steve in Berlin a day or two before.
>
> I still have my first ATS in an Altoids, if you are interested in it contact me off list.
>
> 72, Bob KIØG
>
> On May 3, 2013, at 8:58 AM, "ohwenzelph" <ohwenzelph@...> wrote:
>
>> "You all" may celebrate as you choose!
>>
>> Ten years ago Steve showed me the original, it was a Hosstraders day, NEARfest now, same day that the Old Man In the Mountain fell (may he rest in pieces...) Source/inspiration for the original were surface mount parts that came from satellite TV boxes fished out of the trash when one company bought out another and all the subscribers boxes got replaced.
>>
>> Its been fun and the time has flown.
>>
>> 72/73
>> jerry aa1of
>> franconia, nh

11170. RE: [AT_Sprint] 10 Year ATS Anniversary!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 20:19:00 UTC
From: Dale Putnam
Topic: 11165 Message: 11170

I love it!!! Let's do this thing... I have one of the Zamboid Sprint models.. does that count too?When? OH yes.. this will be fun!!!!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: n8xx@...
Date: Fri, 3 May 2013 15:19:10 -0400
Subject: Re: [AT_Sprint] 10 Year ATS Anniversary!!!

Shall we schedule an "Original AT-Sprint"
QSO Party)? Lessee, everyone with a rig designed by Steve gets a multiplier.
Everyone astute enough to have one of the 50 or so "Original AT-Sprint"
versions gets another multiplier
(larger). Folks
who went out on a trail would get a bonus
multiplier. Folks who
took their original AT-Sprint out
on a trail would
get a million point bonus in
addition to the
bonus multiplier. All
the others would be welcome
to join the fracas, but
receives a multiplier
of zero or -1
(negative one) :)

Sorta like the QSO
Party after the 2006 (or 2007)
FDIM where we folks who were
brave enough to make a 300
milliwatt transmitter got on
the air one afternoon for a couple hours and
tried to contact others with
the same rig, and answered
folks who were calling us.

The "Original
AT-Sprint"
QSO Party"
would
be a

low key event, we
might even
take a
hint from
WB3AAL and his
"Grizzly
Polar Bear
Organization,"
and take
pictures of
ourselves eating
salmon
sandwiches
and posting
them on the "Original
AT-Sprint"
QSO Party"
web site, wherever
that might be.

72/73
de n8xx Hg

QRP
>99.44% of
the time

On 5/3/2013 11:03 AM, Bob Cutter wrote:

I visited Steve in Berlin a day or two before.

I still have my first ATS in an Altoids, if you are interested in it contact me off list.

72, Bob KIØG

On May 3, 2013, at 8:58 AM, "ohwenzelph" <ohwenzelph@...> wrote:

"You all" may celebrate as you choose!

Ten years ago Steve showed me the original, it was a Hosstraders day, NEARfest now, same day that the Old Man In the Mountain fell (may he rest in pieces...) Source/inspiration for the original were surface mount parts that came from satellite TV boxes fished out of the trash when one company bought out another and all the subscribers boxes got replaced.

Its been fun and the time has flown.

72/73
jerry aa1of
franconia, nh

11171. RE: [AT_Sprint] 10 Year ATS Anniversary!!!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 23:46:05 UTC
From: Lee Hiers
Topic: 11165 Message: 11171

Ats-sprint.blogspot.com
On May 3, 2013 4:19 PM, "Dale Putnam" <daleputnam@hotmail.com> wrote:

> **
>
>
> I love it!!! Let's do this thing... I have one of the Zamboid Sprint
> models.. does that count too?
> When? OH yes.. this will be fun!!!!
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> ----------
> To: AT_Sprint@...m
> From: n8xx@...
> Date: Fri, 3 May 2013 15:19:10 -0400
> Subject: Re: [AT_Sprint] 10 Year ATS Anniversary!!!
>
>
> Shall we schedule an "Original AT-Sprint" QSO Party)? Lessee, everyone
> with a rig designed by Steve gets a multiplier. Everyone astute enough
> to have one of the 50 or so "Original AT-Sprint" versions gets another
> multiplier (larger). Folks who went out on a trail would get a bonus
> multiplier. Folks who took their original AT-Sprint out on a trail would
> get a million point bonus in addition to the bonus multiplier. All the
> others would be welcome to join the fracas, but receives a multiplier of
> zero or -1 (negative one) :)
>
> Sorta like the QSO Party after the 2006 (or 2007) FDIM where we folks who
> were brave enough to make a 300 milliwatt transmitter got on the air one
> afternoon for a couple hours and tried to contact others with the same
> rig, and answered folks who were calling us.
>
> The "Original AT-Sprint" QSO Party" would be a low key event, we might
> even take a hint from WB3AAL and his "Grizzly Polar Bear Organization,"
> and take pictures of ourselves eating salmon sandwiches and posting them
> on the "Original AT-Sprint" QSO Party" web site, wherever that might be.
>
> 72/73 de n8xx Hg

> QRP >99.44% of the time
>
> On 5/3/2013 11:03 AM, Bob Cutter wrote:
>
> I visited Steve in Berlin a day or two before.
>
> I still have my first ATS in an Altoids, if you are interested in it contact me off list.
>
> 72, Bob KIØG
>
> On May 3, 2013, at 8:58 AM, "ohwenzelph" <ohwenzelph@...> <ohwenzelph@...> wrote:
>
>
> "You all" may celebrate as you choose!
>
> Ten years ago Steve showed me the original, it was a Hosstraders day, NEARfest now, same day that the Old Man In the Mountain fell (may he rest in pieces...) Source/inspiration for the original were surface mount parts that came from satellite TV boxes fished out of the trash when one company bought out another and all the subscribers boxes got replaced.
>
> Its been fun and the time has flown.
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> 72/73
> jerry aa1of
> franconia, nh
>
>
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>
>

11172. NAQCC Sprint Wednesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-04 02:31:18 UTC
From: NAQCC
Topic: 2848 Message: 11172

NAQCC Sprint Wednesday night!

Last May we had one of only two sprints with under 100 logs submitted in the past three years. That was due to many members heading off to the Dayton Hamfest. So this year to avoid that, we are having our May sprint the week before Dayton as we hope to continue our long run of 100+ logs sprints to show the ham radio world CW is alive and well - and actually growing. That means our May sprint will be on a second Wednesday instead of a third Wednesday.

Our May sprint is this coming Wednesday evening local time (May 8, EDT - 8:30-10:30PM, CDT - 7:30-9:30PM, MDT - 6:30-8:30PM, PDT - 5:30-7:30PM), which translates as Thursday May 9, 0030Z to 0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201305.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX for 1st, 2nd and 3rd place finishers (New!). A Certificate for top score in the GAIN antenna category.

Prizes: Too many to list!! - check out the prize page on our website.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you've been hesitant to join in our sprints because you hear other sprints running at breakneck speeds, have no fear. Our sprints are geared to the newcomer to CW and/or contesting. Virtually everyone including the many veteran contesters who regularly enter our sprints will slow down to YOUR speed to help you make your contacts.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6680+ members in: All 50 States - 9 VE Provinces - 93 Countries. Sign up on the NAQCC website today (http://naqcc.info/) and receive a handsome certificate, with your membership number on it, which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

11173. 20mEFHW with 40mGP Option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-06 01:55:23 UTC
From: steve_wg0at
Topic: 11173 Message: 11173

I've been wanting a 20/40m antenna combo for my 20/40m MTR-one that would be easy to deploy and easy to switch bands. First thought was to use simple liked dipoles which still might be a good solution.

But recently I've had great results with a 20m EFHW using a simple fixed tuner 90:1 balun basically a LC network. After sharing some ideas with friend Fred/KT5X who had modeled adding the 40m radial to the 20m EFHW to create a 40mGP ...said it might have some interesting possibilites. So I decided to try it and built one! ...and it worked!

I switched out the 20m LC network and switched in the 40m elevated radial via a DPDT slide switch and mounted all in the a small lightweight dental floss case (pics below). I'm still playing with lengths of wire to balance out the best SWR on both bands. Plus I discovered the position of the radial relative to the inverted L element changes the SWR a bit. Fun stuff ...did I say it worked!! Woohoo!

I made several QSOs with my MTR while it was setup in the backyard on a 18' fishing pole pulled over into an inverted L configuration and the feed point about 5' above ground. I kept the elevated radial about 3-4' above ground and tied off to a bush about 40' away. Now looking forward to testing it out on a summit soon for SOTA!

Some Pics:
https://plus.google.com/photos/112295522990729632882/albums/5874607625897037057

Cheers, Steve/wGOAT

11174. Receiver Troubleshooting

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-06 02:22:12 UTC
From: nq0t_robert
Topic: 11174 Message: 11174

Hi and Good Day,

I am wrapping up the build on SN 241. I greatly appreciate the other threads offering suggestions. I too couldn't seem to keep the band switch stable for 40M. It tended to go to 80M more often than not. I replaced R4 with a 39K and all is well there.

Also wound the extra turn (12 total) on L10, and the power out is the same for 40M and 20M.

I am struggling with the RX sensitivity. Seems kind of deaf at the moment. A question for those of you that might have some insight. If I inject a signal at the antenna input, should I pretty much see the same strength at the input of U3? I'm seeing about a 3db drop across the TX filter, and then a significant drop across the RX filter. I really don't see anything after L8, although I can hear it in the headphones, so I know some is getting into the mixer. I'm really not hearing the signals I think I should though. As best I can tell, I am coming through the correct inductors for each band. RX sensitivity seems a bit better for 20M, but not by much. Any thoughts or suggestions welcome.

Seems like a lovely little rig and I can't wait to get it on the air.

Kind Regards,

Robert NQ0T

11175. RMR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-06 13:21:19 UTC
From: cloud runner
Topic: 11175 Message: 11175

You know, Steve, I have the exact same "problems" with Field Day. FD in Chama began with two people, Steve, WD9FJL, and I. We did it by ourselves for quite a few years, we won the two-man team B catagory six times.

One friend kept asking to join, we let him, and that moved us into the wide-open any number of people (yet still one transmitter) catagory. After a second place, we won that catagory twice.

With the number opened up, we had others. Two years ago we went to three QRP transmitters, and last year that caused the addition of a GOTA station and a VHF station, and more people. Last year we had ten people including Guy, Ron, and Oleh.

While everyone contributes something, I remain at the crux, meaning whereas one person brings a radio, another brings an antenna, I bring my entire station, four antennas covering all bands, batteries, multiple masts, the bow for getting lines over tall trees ... I tie the arrows onto the lines because no one else knows knots (!?!), I shoot the arrow, I run to the other side of the tree because the others aren't fit, I untie, because no one else knows knots, tie on the new heavier line (same reason, run back to wind it up, while people watch me go (because they aren't fit enough to run back and forth once, let alone all day), to pull it back across and attach the antenna (because no one else knows knots), then THEY are tired, and need to sit down before keeling over, and they begin asking, "what's for dinner," as I glance over at my stove ...

11176. RMR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-06 13:23:05 UTC
From: cloud runner
Topic: 11175 Message: 11176

oops

11177. Re: 20mEFHW with 40mGP Option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-06 14:08:52 UTC
From: reed2web
Topic: 11173 Message: 11177

Steve ...

Your 40/20 antenna system seems to be almost exactly what I plan to do when my MTR is finished and on the air. For minimal weight and effectiveness, I like it.

You might share the details of your matcher with the group, if you would. Is it the tuned network approach, or the transformer approach? Connection details, number of turns, wire size, core details, capacitor, etc?

Thanks ... Reed K7FLY

--- In AT_Sprint@yahoogroups.com, "steve_wg0at" <qrp.wg0at@...> wrote:

> ... But recently I've had great results with a 20m EFHW using a simple fixed tuner 90:1 balun basically a LC network. After sharing some ideas with friend Fred/KT5X who had modeled adding the 40m radial to the 20m EFHW to create a 40mGP ...said it might have some interesting possibilites. So I decided to try it and built one! ...and it worked!
>
> I switched out the 20m LC network and switched in the 40m elevated radial via a DPDT slide switch and mounted all in the a small lightweight dental floss case (pics below). I'm still playing with lengths of wire to balance out the best SWR on both bands. Plus I discovered the position of the radial relative to the inverted L element changes the SWR a bit. Fun stuff ...did I say it worked!! Woohoo!
....>

> Cheers, Steve/wGOAT

11178. Re: 20mEFHW with 40mGP Option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-06 14:34:31 UTC
From: steve_wg0at
Topic: 11173 Message: 11178

Thanks, Reed! I just copied this fixed tuned LC concept here:
http://www.earchi.org/92011endfedfiles/Endfed20.pdf

73, Steve/wGOAT

--- In AT_Sprint@yahoogroups.com, "reed2web" <reed.i.white@...> wrote:
>
>
> Steve ...
>
> Your 40/20 antenna system seems to be almost exactly what I plan to do when my MTR is finished and on the air. For minimal weight and effectiveness, I like it.
>
> You might share the details of your matcher with the group, if you would. Is it the tuned network approach, or the transformer approach? Connection details, number of turns, wire size, core details, capacitor, etc?
>
> Thanks ... Reed K7FLY

11179. Re: 20mEFHW with 40mGP Option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-06 14:45:23 UTC
From: steve_wg0at
Topic: 11173 Message: 11179

Forgot to mention I replaced their coaxial capacitor with a 34pF SM 1kv ...which may not be high enough voltage rating but no smoke as yet? ...wGOAT

--- In AT_Sprint@yahoogroups.com, "steve_wg0at" <qrp.wg0at@...> wrote:
>
> Thanks, Reed! I just copied this fixed tuned LC concept here:
> http://www.earchi.org/92011endfedfiles/Endfed20.pdf
>
> 73, Steve/wGOAT
>
> --- In AT_Sprint@yahoogroups.com, "reed2web" <reed.i.white@> wrote:
> >
> >
> > Steve ...
> >
> > Your 40/20 antenna system seems to be almost exactly what I plan to do when my MTR is finished and on the air. For minimal weight and effectiveness, I like it.
> >
> > You might share the details of your matcher with the group, if you would. Is it the tuned network approach, or the transformer approach? Connection details, number of turns, wire size, core details, capacitor, etc?
> >
> > Thanks ... Reed K7FLY
>

11180. ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-07 01:32:33 UTC
From: nj2e
Topic: 11180 Message: 11180

Hello Everyone, I completed a ATS-4B for a friend and need some help. The radio worked on power up. Except that when I press S 4, the display shows "Off" and the frequency and other information is still displayed. The radio powers up as soon as the battery is connected and the display back lighting is on all the time. All other switch functions are normal, the receiver hears and the transmitter output is normal. I replaced Q3, without change. In advance thank you for any suggestions. 73, Don NJ2E

11181. Re: MTR_2 SN/292 PCB errata at L12 land

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-03 23:28:41 UTC
From: jr1kda_ag6gt
Topic: 11161 Message: 11181

Thanks for good information.

I already have "Atlas DCA - Semiconductor Analyzer - Model DCA55".
http://www.peakelec.co.uk/acatalog/jz_dca55.html
http://www.youtube.com/watch?v=zo_BejqYSF8&feature=youtu.be

I will check my BS170's Gate Threshold Voltage when I will receive my BS170 from online shop. Then I will replace all BS170 with matched one.

73 JR1KDA/AG6GT

--- In AT_Sprint@yahoogroups.com, "robjbrad" <robjbrad@...> wrote:
>
>
>
> This link on testing BS170 might help:
> https://sites.google.com/site/g4zfqradio/matching-bs170-for-softrock
>
>
> --- In AT_Sprint@yahoogroups.com, "jr1kda_ag6gt" <ktm@> wrote:
> >
> > My MTR_2 SN/292 PCB has one errata at L12 land.
> > I post three photo about this errata in Photos named "MTR_2 SN/292 PCB errata at L12".
> >
> > When I finished to build my MTR, I tried to check and test. After checking my MTR, I tried to send CW signal. But I got no signal on 40m band. Also I checked 20m band. MTR is sending 20m band signal with 1 watt at 12V. I check the out put filter circuit. I found that out put line is connected to the ground.
> >
> > I dismount L12, C57 and C75. But there is still short circuit. Finally I found the PCB errata about L12 land. You can see two photos in Photos area.
> > http://xa.yimg.com/kq/groups/18035723/sn/1409089619/name/Image1-c.jpg
> > http://xa.yimg.com/kq/groups/18035723/sn/1103280809/name/Image2-c.jpg
> >
> > I repair the PCB errata.
> > http://xa.yimg.com/kq/groups/18035723/sn/1093645159/name/Image3-c.jpg
> >
> > I rebuild the out put filter circuit for 40m band.
> > I got the out put signal from MTR on 40m band.
> >
> > I think for low out put from my MTR at 12V.
> > Perhaps some BS170s was died when I send the signal on 40m band first time.
> > I already order new BS170 at online shop. I will replace the all BS170.
> >
> > 73 JR1KDA/AG6GT
> >

>

11182. RE: [AT_Sprint] ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-07 02:06:10 UTC
From: Dale Putnam
Topic: 11180 Message: 11182

Might be a worthwhile to look around the dc input area, with attention to resistors and land soldering, around that area.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: nj2e@...
Date: Tue, 7 May 2013 01:32:33 +0000
Subject: [AT_Sprint] ATS-4B Shutdown Problem

Hello Everyone, I completed a ATS-4B for a friend and need some help. The radio worked on power up. Except that when I press S 4, the display shows "Off" and the frequency and other information is still displayed. The radio powers up as soon as the battery is connected and the display back lighting is on all the time. All other switch functions are normal, the receiver hears and the transmitter output is normal. I replaced Q3, without change. In advance thank you for any suggestions. 73, Don NJ2E

11183. RE: [AT_Sprint] ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-07 02:12:12 UTC
From: Dale Putnam
Topic: 11180 Message: 11183

I am referring to Q6 in the 4b, pin 27 of U10, and r21 and r24 and Q8. Not likely to be Q8, tho.I'd be looking three times at U10 pin 27 to Q6 tho.Good Luck.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: at_sprint@yahoogroups.com
From: daleputnam@...
Date: Mon, 6 May 2013 20:06:10 -0600
Subject: RE: [AT_Sprint] ATS-4B Shutdown Problem

Might be a worthwhile to look around the dc input area, with attention to resistors and land soldering, around that area.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: nj2e@...
Date: Tue, 7 May 2013 01:32:33 +0000
Subject: [AT_Sprint] ATS-4B Shutdown Problem

Hello Everyone, I completed a ATS-4B for a friend and need some help. The radio worked on power up. Except that when I press S 4, the display shows "Off" and the frequency and other information is still displayed. The radio powers up as soon as the battery is connected and the display back lighting is on all the time. All other switch functions are normal, the receiver hears and the transmitter output is normal. I replaced Q3, without change. In advance thank you for any suggestions. 73, Don NJ2E

11184. [AT_Sprint] Re: MTR_2 SN/292 PCB errata at L12 land

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-07 12:42:41 UTC
From: Shoji Iwasaki
Topic: 11161 Message: 11184

Hello Everyone,

I checked ten BS170 transistor using Atlas Semiconductor Analyzer.
That results is here.
http://sdr-de-bcl.blog.so-net.ne.jp/2013-05-07-2

On Fri, 03 May 2013 23:28:41 -0000
"jr1kda_ag6gt" <ktm@...-net.ne.jp> wrote:

> Thanks for good information.
>
> I already have "Atlas DCA - Semiconductor Analyzer - Model DCA55".
> http://www.peakelec.co.uk/acatalog/jz_dca55.html
> http://www.youtube.com/watch?v=zo_BejqYSF8&feature=youtu.be
>
> I will check my BS170's Gate Threshold Voltage when I will receive my BS170 from online shop. Then I will replace all BS170 with matched one.
>
> 73 JR1KDA/AG6GT
>
> --- In <mailto:AT_Sprint%40yahoogroups.com>AT_Sprint@yahoogroups.com, "robjbrad" <robjbrad@...> wrote:
> >
> >
> >
> > This link on testing BS170 might help:
> > https://sites.google.com/site/g4zfqradio/matching-bs170-for-softrock
> >
> >
> > --- In <mailto:AT_Sprint%40yahoogroups.com>AT_Sprint@yahoogroups.com, "jr1kda_ag6gt" <ktm@> wrote:
> > >
> > > My MTR_2 SN/292 PCB has one errata at L12 land.
> > > I post three photo about this errata in Photos named "MTR_2 SN/292 PCB errata at L12".
> > >
> > > When I finished to build my MTR, I tried to check and test. After checking my MTR, I tried to send CW signal. But I got no signal on 40m band. Also I checked 20m band. MTR is sending 20m band signal with 1 watt at 12V. I check the out put filter circuit. I found that out put line is connected to the ground.
> > >
> > > I dismount L12, C57 and C75. But there is still short circuit. Finally I found the PCB errata about L12 land. You can see two photos in Photos area.
> > > http://xa.yimg.com/kq/groups/18035723/sn/1409089619/name/Image1-c.jpg
> > > http://xa.yimg.com/kq/groups/18035723/sn/1103280809/name/Image2-c.jpg
> > >

> > > I repair the PCB errata.
> > > http://xa.yimg.com/kq/groups/18035723/sn/1093645159/name/Image3-c.jpg
> > >
> > > I rebuild the out put filter circuit for 40m band.
> > > I got the out put signal from MTR on 40m band.
> > >
> > > I think for low out put from my MTR at 12V.
> > > Perhaps some BS170s was died when I send the signal on 40m band first time.
> > > I already order new BS170 at online shop. I will replace the all BS170.
> > >
> > > 73 JR1KDA/AG6GT
> > >
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Shoji Iwasaki <ktm@...-net.ne.jp>

11185. Re: 20mEFHW with 40mGP Option

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-07 14:47:47 UTC
From: reed2web
Topic: 11173 Message: 11185

OK, yes, a tuned circuit. I have used that concept many times on 40M, except with an air coil, rather than a ferrite toroid. It works very well, except I think the tuning is more critical than the transformer approach (which I suspect is less efficient).

Thanks for the details.

... Reed K7FLY

--- In AT_Sprint@yahoogroups.com, "steve_wg0at" <qrp.wg0at@...> wrote:
>
> Thanks, Reed! I just copied this fixed tuned LC concept here:
> http://www.earchi.org/92011endfedfiles/Endfed20.pdf
>
> 73, Steve/wGOAT

11186. Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-07 16:18:04 UTC
From: nj2e
Topic: 11180 Message: 11186

Dale, I have checked those already and reheated all the pins of U10. Do you know the voltages for pin 27 when S5 is pressed or not? Also the readings when S4 is pressed? Could this be a firmware problem?
Is there a way to check the version? Thanks, Don NJ2E

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
> I am referring to Q6 in the 4b, pin 27 of U10, and r21 and r24 and Q8. Not likely to be Q8, tho.I'd be looking three times at U10 pin 27 to Q6 tho.Good Luck.
>
> Have a great day,
>
>
> --... ...--
> Dale - WC7S in Wy
>
>
>
> To: at_sprint@yahoogroups.com
> From: daleputnam@...
> Date: Mon, 6 May 2013 20:06:10 -0600
> Subject: RE: [AT_Sprint] ATS-4B Shutdown Problem
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> Might be a worthwhile to look around the dc input area, with attention to resistors and land soldering, around that area.
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> Have a great day,
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> --... ...--
> Dale - WC7S in Wy
>
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>
> To: AT_Sprint@yahoogroups.com
> From: nj2e@...
> Date: Tue, 7 May 2013 01:32:33 +0000
> Subject: [AT_Sprint] ATS-4B Shutdown Problem
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> Hello Everyone, I completed a ATS-4B for a friend and need some help. The radio worked on power up. Except that when I press S 4, the display shows "Off" and the frequency and other information is still displayed. The radio powers up as soon as the battery is connected and

the display back lighting is on all the time. All other switch functions are normal, the receiver hears and the transmitter output is normal. I replaced Q3, without change. In advance thank you for any suggestions. 73, Don NJ2E
>

11187. Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-07 19:21:11 UTC
From: Buddy Brown
Topic: 11180 Message: 11187

If I am reading this "problem" correctly, this is normal operation.

When you first connect power the radio will power up. After

powering down the radio, does it stay powered down until you

do a normal power up from the switch? It should power up/down

normally until the battery is disconnected. Upon reconnection

of the battery it will power up by itself the first time, each time.

At least, this is the way mine works.

Buddy - N5BUD

11188. Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-07 21:35:35 UTC
From: nj2e
Topic: 11180 Message: 11188

Understand that it will power up as soon as the battery is connected, but when I press and hold the "Function" button, "off" appears on the
display. The frequency and other data remains on the display. Also I still hear noise in the headset. Holding S5 (On) doesn't clear the "Off", only disconnecting and reconnecting the battery will do that.
Thanks, Don NJ2E

--- In AT_Sprint@yahoogroups.com, "Buddy Brown" <buddybrown@...> wrote:
>
> If I am reading this "problem" correctly, this is normal operation.
>
> When you first connect power the radio will power up. After
>
> powering down the radio, does it stay powered down until you
>
> do a normal power up from the switch? It should power up/down
>
> normally until the battery is disconnected. Upon reconnection
>
> of the battery it will power up by itself the first time, each time.
>
> At least, this is the way mine works.
>
> Buddy - N5BUD
>

11189. RE: [AT_Sprint] Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-07 21:40:07 UTC
From: Dale Putnam
Topic: 11180 Message: 11189

HI Don, Maybe I misunderstood. It starts up, when you connect the battery. Then if you tune around the band... then hold the function button, "off" appears but it does not shut off. The only way to shut off... is to disconnect the battery. Is that correct?

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: nj2e@...
Date: Tue, 7 May 2013 21:35:35 +0000
Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem

Understand that it will power up as soon as the battery is connected, but when I press and hold the "Function" button, "off" appears on the

display. The frequency and other data remains on the display. Also I still hear noise in the headset. Holding S5 (On) doesn't clear the "Off", only disconnecting and reconnecting the battery will do that.

Thanks, Don NJ2E

--- In AT_Sprint@yahoogroups.com, "Buddy Brown" <buddybrown@...> wrote:

>

> If I am reading this "problem" correctly, this is normal operation.

>

> When you first connect power the radio will power up. After

>

> powering down the radio, does it stay powered down until you

>

> do a normal power up from the switch? It should power up/down

>

> normally until the battery is disconnected. Upon reconnection

>

> of the battery it will power up by itself the first time, each time.

>

> At least, this is the way mine works.

>

> Buddy - N5BUD

>

11190. Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-07 23:23:34 UTC
From: nj2e
Topic: 11180 Message: 11190

Yes. Is this normal operation?

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
> HI Don, Maybe I misunderstood. It starts up, when you connect the battery. Then if you tune around the band... then hold the function button, "off" appears but it does not shut off. The only way to shut off... is to disconnect the battery. Is that correct?
>
> Have a great day,
>
>
> --... ...--
> Dale - WC7S in Wy
>
>
>
> To: AT_Sprint@yahoogroups.com
> From: nj2e@...
> Date: Tue, 7 May 2013 21:35:35 +0000
> Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem
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> Understand that it will power up as soon as the battery is connected, but when I press and hold the "Function" button, "off" appears on the
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> display. The frequency and other data remains on the display. Also I still hear noise in the headset. Holding S5 (On) doesn't clear the "Off", only disconnecting and reconnecting the battery will do that.
>
> Thanks, Don NJ2E
>
>
>
> --- In AT_Sprint@yahoogroups.com, "Buddy Brown" <buddybrown@> wrote:
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> >
>
> > If I am reading this "problem" correctly, this is normal operation.
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> >
>
> > When you first connect power the radio will power up. After
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> > powering down the radio, does it stay powered down until you
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> > do a normal power up from the switch? It should power up/down
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> > normally until the battery is disconnected. Upon reconnection
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> > of the battery it will power up by itself the first time, each time.
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>
> > At least, this is the way mine works.
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> >
>
> > Buddy - N5BUD
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11191. RE: [AT_Sprint] Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-07 23:35:08 UTC
From: Dale Putnam
Topic: 11180 Message: 11191

Nope... sure isn't. I've had that happen before, a couple times, one was a Q8 failure, the other was simply rosin under the microprocessor, causing a lot of issues and the power issue was the most noticeable and easy to fix. Cleaning wasn't tho.Good Luck,

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: nj2e@...
Date: Tue, 7 May 2013 23:23:34 +0000
Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem

Yes. Is this normal operation?

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

> HI Don, Maybe I misunderstood. It starts up, when you connect the battery. Then if you tune around the band... then hold the function button, "off" appears but it does not shut off. The only way to shut off... is to disconnect the battery. Is that correct?

>

> Have a great day,

>

>

> --... ...--

> Dale - WC7S in Wy

>

>

>

> To: AT_Sprint@yahoogroups.com

> From: nj2e@...

> Date: Tue, 7 May 2013 21:35:35 +0000

> Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem

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> Understand that it will power up as soon as the battery is connected, but when I press and hold the "Function" button, "off" appears on the

>

> display. The frequency and other data remains on the display. Also I still hear noise in the headset. Holding S5 (On) doesn't clear the "Off", only disconnecting and reconnecting the battery will do that.

>

> Thanks, Don NJ2E

>

>

>

> --- In AT_Sprint@yahoogroups.com, "Buddy Brown" <buddybrown@> wrote:

>

> >

>

> > If I am reading this "problem" correctly, this is normal operation.

>

> >

>

> > When you first connect power the radio will power up. After

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>

> > powering down the radio, does it stay powered down until you

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> >

>

> > do a normal power up from the switch? It should power up/down

>

> >

>

> > normally until the battery is disconnected. Upon reconnection

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> >

>

> > of the battery it will power up by itself the first time, each time.

>

> >

>

> > At least, this is the way mine works.

>

> >

>

> > Buddy - N5BUD

>

> >

>

11192. RE: [AT_Sprint] Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-08 00:20:47 UTC
From: Mike Olbrisch
Topic: 11180 Message: 11192

Dale..... and anyone else interested.

Up until about 3 years ago, I was working as an electronics specialist in a power plant. I maintained ALL the pollution monitoring electronics, as well as many of the other plant systems. Soldering was something I did a lot of. In fact, had I still been at the plant, I probably would have attempted my ATS-4B using the plant SMD tools at lunch every day. I was just not equipped for that at home. Can't go back, plant is union, I am not union anymore. <grin>.

ANYWAY....

We used a product called Enviro-Tech Defluxer - 1676. This stuff would really wash the flux away. A few applications with a blast of canned compressed air in between, and it was clean. I was so impressed with it that I bought a case of 12 cans for the house too.

I gave up a lot when I promoted up to the control center. No more professional soldering station, no more bead blaster, no more lathe, drill press, band-saw..... welder and plasma cutter..... But no more overtime either! And that was a blessing.

Hope this helps someone.

Enviro-Tech Defluxer - 1676. http://www.galco.com/buy/Techspray/1676-22S

Oops - it says obsolete. Well - they had to replace it with something! Click on SEE ALTERNATIVES. Suddenly that case wasn't a bad idea after all. Wow - it got expensive too..... but you only need 1 can.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Tuesday, May 07, 2013 17:35
To: AT Sprint
Subject: RE: [AT_Sprint] Re: ATS-4B Shutdown Problem

Nope... sure isn't. I've had that happen before, a couple times, one was a Q8 failure, the other was simply rosin under the microprocessor, causing a lot of issues and the power issue was the most noticeable and easy to fix. Cleaning wasn't tho.
Good Luck,

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: nj2e@...
Date: Tue, 7 May 2013 23:23:34 +0000
Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem

Yes. Is this normal operation?

--- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> , Dale Putnam <daleputnam@...> wrote:
>
> HI Don, Maybe I misunderstood. It starts up, when you connect the battery. Then if you tune around the band... then hold the function button, "off" appears but it does not shut off. The only way to shut off... is to disconnect the battery. Is that correct?
>
> Have a great day,
>
>
> --... ...--
> Dale - WC7S in Wy
>
>
>
> To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>
> From: nj2e@...
> Date: Tue, 7 May 2013 21:35:35 +0000
> Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem
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> Understand that it will power up as soon as the battery is connected, but
when I press and hold the "Function" button, "off" appears on the
>
> display. The frequency and other data remains on the display. Also I still
hear noise in the headset. Holding S5 (On) doesn't clear the "Off", only
disconnecting and reconnecting the battery will do that.
>
> Thanks, Don NJ2E
>
>
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> ,
"Buddy Brown" <buddybrown@> wrote:
>
> >
>
> > If I am reading this "problem" correctly, this is normal operation.
>
> >
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> > When you first connect power the radio will power up. After
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> > powering down the radio, does it stay powered down until you
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> > do a normal power up from the switch? It should power up/down
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> > normally until the battery is disconnected. Upon reconnection
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> > of the battery it will power up by itself the first time, each time.
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>
> > At least, this is the way mine works.
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> >

>
> > Buddy - N5BUD
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> >
>

11193. BFO Adjustment Help.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-08 19:23:42 UTC
From: Martin
Topic: 11193 Message: 11193

Hi everyone,

MTR #263 is almost complete but I am a bit unsure about the BFO adjustment procedure.
I inserted my headphones into the socket, followed the instructions and
heard the loud tone.
When I adjust CT1 the tone is varying in frequency but I am not sure what is meant by
"peaking" it.
Am I listening for the highest audible frequency or no tone at all?
Should I use an audio spectrum analyser program and if so, which one?
Do I need to solder a short wire to TP2 and one of the headphone jack pins if I have the
headphone jack already soldered to the board?
Apologies for the barrage of questions but as you can see, my ignorance is quite
comprehensive!

Thanks in advance
Martin
MI0CLP

11194. Re: [AT_Sprint] BFO Adjustment Help.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-08 19:59:32 UTC
From: Colin Evans
Topic: 11193 Message: 11194

The spectrum analyser program that I used was this one -

http://www.n0ss.net/index_k1.html

It's very simple and seems to work well.

Regards, Colin, M0CGH

Sent from my Android device.
On May 8, 2013 8:23 PM, "Martin" <martin1hunter@...> wrote:

> **
>
>
> Hi everyone,
>
> MTR #263 is almost complete but I am a bit unsure about the BFO adjustment
> procedure.
> I inserted my headphones into the socket, followed the instructions and
> heard the loud tone.
> When I adjust CT1 the tone is varying in frequency but I am not sure what
> is meant by "peaking" it.
> Am I listening for the highest audible frequency or no tone at all?
> Should I use an audio spectrum analyser program and if so, which one?
> Do I need to solder a short wire to TP2 and one of the headphone jack pins
> if I have the headphone jack already soldered to the board?
> Apologies for the barrage of questions but as you can see, my ignorance is
> quite comprehensive!
>
> Thanks in advance
> Martin
> MI0CLP
>
>
>

11195. Montana land ownership map

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-09 01:11:00 UTC
From: Skyridr
Topic: 11195 Message: 11195

Identification of public land is now easier due to an online site, <http://svc.mt.gov/msl/mtcadastral/>. Also, owners of private property are listed. Access the site, zoom in, and click to obtain data. Perhaps similar sites are available for other states? This certainly makes SOTA site selection easier.

In Montana, some sections of public and private land are assigned in a checkerboard fashion. By law, it is trespassing to step from the corner of one section of public land to another, even though you don't touch any private land. Perhaps this law may be modified in the future.

Snow is melting, but mountain trails are still muddy and slick. Even reaching some trailheads is difficult at this time.
73
Wendell
N7WM
Montana

11196. Re: BFO Adjustment Help.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-09 10:22:15 UTC
From: jer terez
Topic: 11193 Message: 11196

loudest

11197. Re: [AT_Sprint] Re: BFO Adjustment Help.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-09 11:18:07 UTC
From: Robert Bradshaw
Topic: 11193 Message: 11197

I think the MTR2 PDF has steps missing vs the first manual (MTRmanual42012.pdf)

On 9 May 2013 11:22, jer terez <ohwenzelph@...> wrote:

> **
>
>
> loudest
>
>

11198. Yet Another Battery Solution, this One Utilizing Supercapacitors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-09 21:04:02 UTC
From: reed2web
Topic: 11198 Message: 11198

First, I would like to thank Colin Evans M0CGH for doing an excellent job building the board for MTR #247. My eyesight at this point in codger decline is barely adequate for conventional ckt boards, much less SMT boards, and Colin's help was so much appreciated.

I have read many good battery ideas from the AT_Sprint group. For starters, I decided to see what I could do with a conventional 9V battery because they are available almost anywhere in a pinch. Problem is, they are not designed for current anywhere near the 500-600 ma needed. (They have high internal resistance, and low capacity.)

So far, I have only found one conventional form-factor 9v battery where the manufacturer advertises 1000 ma max load current. The others are not even close. This is the Energizer LA522 Advanced Lithium 9v battery. Specs indicate it will put out 500 ma at 7.5v (relatively flat) for 0.8 hr. Cost: $5 - $6.

However, the general-purpose Alkaline batteries are all that are available at typical stores. These have limited ma-hours, and very limited max discharge current. One solution is to put "supercapacitors" in the MTR so that power can be buffered between the dots and dashes and characters.

I purchased five one-farad (1,000,000 mf) 2.7v capacitors and connected them in series, rendering 200,000 mf. These, I placed at the power input to the MTR. They are small enough that they will fit inside, along with a 9v battery. (However, I decided I did not want a battery inside the case.)

With a half-used alkaline 9v battery, I see close to a 100% increase in power for dits and about 50% increase in power output for dahs. This is a rough measurement because the watt-meter needle dances around.

If I had to do it over, I would use 10 supercapacitors instead of 5. BTW, the Mouser number is 504HV0810-2R7105-R, and the cost is $1.66 ea. The important criteria are low ESR (internal resistance) like .02 ohm, high capacity, and small size.

I also added a battery voltage indicator to the rig. It is a 6.2 volt zener diode, 680 ohm resistor, and red LED, all in series. The LED fades black as the battery voltage drops below about 7.5v. At 8.5 volts it uses 1.5 ma. The LED I chose was small and efficient with low rated turn-on voltage. LEDs vary in efficiency and activation voltage.

I found this LED circuit to be a very good indicator of instantaneous supply voltage. You can see it seriously blink down when transmitting. It showed a noticeable improvement with the supercapacitors.

My concern is that when power is applied, the slow rise to power (as the supercapacitors charge up) might have some impact on microprocessor initialization. To minimize problems, I think it would be good to wait 30 seconds or more after removing power before applying power. This would assure that the microprocessor had fully shut down before it was started up again.

11199. Re: BFO Adjustment Help.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-09 21:22:26 UTC
From: Martin
Topic: 11193 Message: 11199

A big thank you to everyone who replied to my queries.

I am pleased to say that I am up and running with a nice steady 3 watts out for 9 volts supply on 40 and 20 meters.

I noticed that on 40 meters there is no discernable temperature rise in the three final transistors but on 20 meters they get quite hot after a short QSO. Is this normal?
I would like some reassurance before I install the board in its case.

Thank you in advance
Martin
MI0CLP

--- In AT_Sprint@yahoogroups.com, Robert Bradshaw <robjbrad@...> wrote:
>
> I think the MTR2 PDF has steps missing vs the first manual
> (MTRmanual42012.pdf)
>
>
> On 9 May 2013 11:22, jer terez <ohwenzelph@...> wrote:
>
> > **
> >
> >
> > loudest
> >
> >
>

11200. RE: [AT_Sprint] Re: BFO Adjustment Help.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-09 23:34:12 UTC
From: Dale Putnam
Topic: 11193 Message: 11200

Hi Martin, A good clue to If that is right or not.. along with the temp rise.. is the currant being drawn at what voltage. They can run quite warm.. but the warmer they get... the less tolerant of key down length and any increase of swr,above a 1:1 match.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: martin1hunter@btinternet.com
Date: Thu, 9 May 2013 21:22:26 +0000
Subject: [AT_Sprint] Re: BFO Adjustment Help.

A big thank you to everyone who replied to my queries.

I am pleased to say that I am up and running with a nice steady 3 watts out for 9 volts supply on 40 and 20 meters.

I noticed that on 40 meters there is no discernable temperature rise in the three final transistors but on 20 meters they get quite hot after a short QSO. Is this normal?

I would like some reassurance before I install the board in its case.

Thank you in advance

Martin

MI0CLP

--- In AT_Sprint@yahoogroups.com, Robert Bradshaw <robjbrad@...> wrote:

>

> I think the MTR2 PDF has steps missing vs the first manual

> (MTRmanual42012.pdf)

>

>

> On 9 May 2013 11:22, jer terez <ohwenzelph@...> wrote:

>

> > **

> >

> >

> > loudest

> >

> >

>

11201. Re: BFO Adjustment Help.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-10 07:56:48 UTC
From: Martin
Topic: 11193 Message: 11201

Hi Dale,

I guess I will have to keep QSOs short and to the point on 20 meters!

I just found it strange that they hardly heat up at all on 40 meters.

Thanks for the reply.

Martin
MI0CLP
--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
> Hi Martin, A good clue to If that is right or not.. along with the temp rise.. is the currant being drawn at what voltage. They can run quite warm.. but the warmer they get... the less tolerant of key down length and any increase of swr,above a 1:1 match.
>
> Have a great day,
>
>
> --... ...--
> Dale - WC7S in Wy
>
>
>
> To: AT_Sprint@yahoogroups.com
> From: martin1hunter@...
> Date: Thu, 9 May 2013 21:22:26 +0000
> Subject: [AT_Sprint] Re: BFO Adjustment Help.
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> A big thank you to everyone who replied to my queries.
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>
> I am pleased to say that I am up and running with a nice steady 3 watts out for 9 volts supply on 40 and 20 meters.
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> I noticed that on 40 meters there is no discernable temperature rise in the three final transistors but on 20 meters they get quite hot after a short QSO. Is this normal?
>
> I would like some reassurance before I install the board in its case.
>
>
>
> Thank you in advance
>
> Martin
>
> MI0CLP
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>
> --- In AT_Sprint@yahoogroups.com, Robert Bradshaw <robjbrad@> wrote:
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> >
>
> > I think the MTR2 PDF has steps missing vs the first manual
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> > (MTRmanual42012.pdf)
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> > On 9 May 2013 11:22, jer terez <ohwenzelph@> wrote:
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11202. Re: [AT_Sprint] Re: BFO Adjustment Help.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-10 11:14:16 UTC
From: Colin Tuckley
Topic: 11193 Message: 11202

Quoting Martin <martin1hunter@...>:

> I guess I will have to keep QSOs short and to the point on 20 meters!
>
> I just found it strange that they hardly heat up at all on 40 meters.

As Dale said, you need to measure the current drawn by the rig. It is not always the case that tweaking the coils for highest power out is the best setting.

Colin G8TMV

11203. Re:: BFO Adjustment Help.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-10 14:36:02 UTC
From: cloud runner
Topic: 11203 Message: 11203

My finals do not get warm on either band IF the load is matched. That includes running the radio at 5 watts out.

73, Fred - KT5X (aka WS0TA)

>
>
> I am pleased to say that I am up and running with a nice steady 3 watts out for 9 volts supply on 40 and 20 meters.
>
>
>
> I noticed that on 40 meters there is no discernable temperature rise in the three final transistors but on 20 meters they get quite hot after a short QSO. Is this normal?
>
> I would like some reassurance before I install the board in its case.
>
>
>
> Thank you in advance
>
> Martin
>
> MI0CLP

.

11204. Re: BFO Adjustment Help.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-10 23:44:36 UTC
From: Yannick
Topic: 11193 Message: 11204

Hi Martin,

My MTR is from the first run and I don't know what are the directions for the alignment in the second run manual.
However I first did the filter peaking by ears. Not "peaking it" but centering the tone like the manual told to do.
That mean you start by lowering the frequency to the point you hear the signal start to decrease. This is the lower skirt of the filter. Then you go the other way (increasing the F) counting the steps until the tone starts to decrease to the same amount it has decreased at the lower skirt. Finally you go back to the "center point" that mean decreasing the F to half the steps you counted. You save.

I did it a second time using the spectroscope software. It was more to "play with it" rather than by need. Final setting were close to the initial one.

Now I even have a oscilloscope on my bench but really don't feel the need to align it. The MTR work great. Filter bandwidth is optimal for the intended usage.

I recently had my first stateside QSO with K7XB using the MTR. Antenna setup was suboptimal : GP with 4 radials close to the sea but on a hill side facing SW instead of N.
The 4W of the MTR were helped by a 55W amplifier. All running on a SLA battery.

20m condx were mediocre so I had only a few QSO in around 4 hours of operating. It was nonetheless a great fun to be able to do EU and NA QSOs with a station contained in a back-pack that I can setup in less than 5 minutes.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

--- In AT_Sprint@yahoogroups.com, "Martin" <martin1hunter@...> wrote:
>
> Hi everyone,
>
> MTR #263 is almost complete but I am a bit unsure about the BFO adjustment procedure.
> I inserted my headphones into the socket, followed the instructions and
> heard the loud tone.
> When I adjust CT1 the tone is varying in frequency but I am not sure what is meant by "peaking" it.
> Am I listening for the highest audible frequency or no tone at all?
> Should I use an audio spectrum analyser program and if so, which one?
> Do I need to solder a short wire to TP2 and one of the headphone jack pins if I have the headphone jack already soldered to the board?
> Apologies for the barrage of questions but as you can see, my ignorance is quite

comprehensive!
>
> Thanks in advance
> Martin
> MI0CLP
>

11205. 30m builders - power output?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-11 02:21:52 UTC
From: TJ Campie
Topic: 11205 Message: 11205

Just completed my…6th MTR? I dunno… anyway first one I've built with 30m in it. The resistor problem many of you were having didn't manifest, the suggested one worked fine. Problem is, my output is only 1.8w at 10.5 volts. On 20m, I get 3.9w at 10.5v. Still investigating. I'm wondering if others have a power output on 30m to report.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

11206. Re: [AT_Sprint] 30m builders - power output?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-11 02:40:07 UTC
From: Hank Greeb
Topic: 11205 Message: 11206

Do you build MTR's, etc. for others? I don't feel competent to build such a rig.

72/73 de n8xx Hg
QRP >99.44% of the time

On 5/10/2013 10:21 PM, TJ Campie wrote:
>
>
> Just completed my?6th MTR? I dunno? anyway first one I've built with
> 30m in it. The resistor problem many of you were having didn't
> manifest, the suggested one worked fine. Problem is, my output is
> only 1.8w at 10.5 volts. On 20m, I get 3.9w at 10.5v. Still
> investigating. I'm wondering if others have a power output on 30m to
> report.
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*

11207. Re: 30m builders - power output?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-11 03:28:46 UTC
From: TJ Campie
Topic: 11205 Message: 11207

I do, have built only one for myself. I charge $60 including return shipping. This last one clears my backlog so turnarounds about a week.

On Friday, May 10, 2013, Hank Greeb wrote:

> **
>
>
> Do you build MTR's, etc. for others? I don't feel competent to build
> such a rig.
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>
> On 5/10/2013 10:21 PM, TJ Campie wrote:
>
> Just completed my…6th MTR? I dunno… anyway first one I've built with 30m
> in it. The resistor problem many of you were having didn't manifest, the
> suggested one worked fine. Problem is, my output is only 1.8w at 10.5
> volts. On 20m, I get 3.9w at 10.5v. Still investigating. I'm wondering
> if others have a power output on 30m to report.
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
>

--
73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

11208. Re: [AT_Sprint] 30m builders - power output?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-11 18:30:52 UTC
From: TJ Campie
Topic: 11205 Message: 11208

FYI, fixed the power output problem, I removed 1 turn on the smaller coil and am now getting 4.2w out with 10.5v :)

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On May 10, 2013, at 9:40 PM, Hank Greeb <n8xx@...> wrote:

> Do you build MTR's, etc. for others? I don't feel competent to build such a rig.
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>
>
> On 5/10/2013 10:21 PM, TJ Campie wrote:
>> Just completed my…6th MTR? I dunno… anyway first one I've built with 30m in it. The resistor problem many of you were having didn't manifest, the suggested one worked fine. Problem is, my output is only 1.8w at 10.5 volts. On 20m, I get 3.9w at 10.5v. Still investigating. I'm wondering if others have a power output on 30m to report.
>>
>> 73, W0EA
>> TJ
>> ----
>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>> NAQCC #3768 | Flying Pigs QRP #2254
>> Elecraft KX3 SN 288
>> Because QRO is too easy
>
>

11209. Re: [AT_Sprint] 30m builders - power output?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-11 20:34:36 UTC
From: Steve Galchutt
Topic: 11205 Message: 11209

Woohoo! Outstanding ...just returning from SOTA

via iGoat

On May 11, 2013, at 12:30 PM, TJ Campie <tom.campie@...> wrote:

> FYI, fixed the power output problem, I removed 1 turn on the smaller coil and am now getting 4.2w out with 10.5v :)
>
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> Because QRO is too easy
>
> On May 10, 2013, at 9:40 PM, Hank Greeb <n8xx@...> wrote:
>
>>
>> Do you build MTR's, etc. for others? I don't feel competent to build such a rig.
>>
>> 72/73 de n8xx Hg
>> QRP >99.44% of the time
>>
>>
>> On 5/10/2013 10:21 PM, TJ Campie wrote:
>>> Just completed my…6th MTR? I dunno… anyway first one I've built with 30m in it. The resistor problem many of you were having didn't manifest, the suggested one worked fine. Problem is, my output is only 1.8w at 10.5 volts. On 20m, I get 3.9w at 10.5v. Still investigating. I'm wondering if others have a power output on 30m to report.
>>>
>>> 73, W0EA
>>> TJ
>>> ----
>>> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
>>> NAQCC #3768 | Flying Pigs QRP #2254
>>> Elecraft KX3 SN 288
>>> Because QRO is too easy
>
>

11210. Re: 30m builders - power output?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-11 21:04:20 UTC
From: TJ Campie
Topic: 11205 Message: 11210

Stop rubbing it in ;)

See you Thursday.

On Saturday, May 11, 2013, Steve Galchutt wrote:

> **
>
>
> Woohoo! Outstanding ...just returning from SOTA
>
> via iGoat
>
> On May 11, 2013, at 12:30 PM, TJ Campie <tom.campie@gmail.com<javascript:_e({}, 'cvml', 'tom.campie@...');>>
> wrote:
>
>
>
> FYI, fixed the power output problem, I removed 1 turn on the smaller coil
> and am now getting 4.2w out with 10.5v :)
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
> On May 10, 2013, at 9:40 PM, Hank Greeb <n8xx@... <javascript:_e({},
> 'cvml', 'n8xx@arrl.org');>> wrote:
>
>
>
> Do you build MTR's, etc. for others? I don't feel competent to build
> such a rig.
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>
> On 5/10/2013 10:21 PM, TJ Campie wrote:
>
> Just completed my…6th MTR? I dunno… anyway first one I've built with 30m
> in it. The resistor problem many of you were having didn't manifest, the
> suggested one worked fine. Problem is, my output is only 1.8w at 10.5

> volts. On 20m, I get 3.9w at 10.5v. Still investigating. I'm wondering
> if others have a power output on 30m to report.
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
>
>
>

--
73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

11211. Power Outputs #247, For Comparison

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-12 01:05:16 UTC
From: reed2web
Topic: 11211 Message: 11211

For comparison, here follows power outputs for MTR #247. The RMS power numbers were calculated from measurements from a 100 MHz scope while feeding a 50-ohm resistive load.

Watts Current
Volts 40M 20M 40M 20M
8.0 2.00 1.63 530 510 ma
8.5 2.43 1.85 570 540
10.0 3.42 2.43 640 620

These numbers were recorded after L10 was rewound and squished tight, which produced about a 50% increase on 20M. Comments welcome.

Reed ... K7FLY

11213. Re: Power Outputs #247, For Comparison

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-12 01:28:00 UTC
From: reed2web
Topic: 11211 Message: 11213

Yahoo pretty much trashed the table formatting in my original msg, so here's another try:

8.00v: 40M-watts=2.00, 20M-watts=1.63, 40M-ma=530, 20M-ma=510
8.50v: 40M-watts=2.43, 20M-watts=1.85, 40M-ma=570, 20M-ma=540
10.0v: 40M-watts=3.42, 20M-watts=2.43, 40M-ma=640, 20M-ma=620

--- In AT_Sprint@yahoogroups.com, "reed2web" <reed.i.white@...> wrote:
>
>
> For comparison, here follows power outputs for MTR #247. The RMS power numbers were calculated from measurements from a 100 MHz scope while feeding a 50-ohm resistive load.
>
> Watts Current
> Volts 40M 20M 40M 20M
> 8.0 2.00 1.63 530 510 ma
> 8.5 2.43 1.85 570 540
> 10.0 3.42 2.43 640 620
>
> These numbers were recorded after L10 was rewound and squished tight, which produced about a 50% increase on 20M. Comments welcome.
>
> Reed ... K7FLY
>

11214. Re:: BFO Adjustment Help.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-12 11:00:53 UTC
From: Yannick
Topic: 11203 Message: 11214

Hi Fred,

That's interesting.
During my last operation I have noticed the MTR final was cooler when running through the 55W amp than when running barefoot.
I was only a feeling and somewhat subtle so I thought it was due to the battery voltage drop being higher with the amp connected.
This may rather be because of the 55w loading the MTR final to a load being close to 50ohms.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

--- In AT_Sprint@yahoogroups.com, "cloud runner" <just.one.hill@...> wrote:
>
> My finals do not get warm on either band IF the load is matched. That includes running the radio at 5 watts out.
>
> 73, Fred - KT5X (aka WS0TA)
>
> >
> >
> > I am pleased to say that I am up and running with a nice steady 3 watts out for 9 volts supply on 40 and 20 meters.
> >
> >
> >
> > I noticed that on 40 meters there is no discernable temperature rise in the three final transistors but on 20 meters they get quite hot after a short QSO. Is this normal?
> >
> > I would like some reassurance before I install the board in its case.
> >
> >
> >
> > Thank you in advance
> >
> > Martin
> >
> > MI0CLP
>
> .
>

11215. ATS-4 locked in straight key mode

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-13 15:14:37 UTC
From: pgschreier
Topic: 11215 Message: 11215

For some 2 years, my ATS-4 has been my "go to" rig, done almost 100 SOTA activations with it and love the hot receiver.

Note: this is an ATS-4, Rev A, second run kit

The other day, I powered up and found myself stuck in straight key mode.

Having reviewed this list, I tried to force a CPU reset by holding various buttons while powering up. This just made the problem worse -- not only am I stuck in straight key mode, I'm stuck in RIT mode, too, with the upper line of the display showing the RIT frequency.

Is there anything I can do short of replacing the CPU? (Ug, I shudder at the thought.)

tnx,
Paul AA1MI / HB9DST

11216. RE: [AT_Sprint] ATS-4 locked in straight key mode

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-13 16:04:36 UTC
From: Dale Putnam
Topic: 11215 Message: 11216

In the heat of "oh My.. it is broke" and somewhere on the way to "I need it..." there is a shuddering andrealization... something.. went wrong. It is so easy to just start pushing buttons.. I know... I have rescued me from that a lot. Have you allowed it to sit.. say an hour without power. then without a key plugged in, power up. Is it in rit now? now plug in the paddle, is it in straight key?

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: aa1mi@...
Date: Mon, 13 May 2013 15:14:37 +0000
Subject: [AT_Sprint] ATS-4 locked in straight key mode

For some 2 years, my ATS-4 has been my "go to" rig, done almost 100 SOTA activations with it and love the hot receiver.

Note: this is an ATS-4, Rev A, second run kit

The other day, I powered up and found myself stuck in straight key mode.

Having reviewed this list, I tried to force a CPU reset by holding various buttons while powering up. This just made the problem worse -- not only am I stuck in straight key mode, I'm stuck in RIT mode, too, with the upper line of the display showing the RIT frequency.

Is there anything I can do short of replacing the CPU? (Ug, I shudder at the thought.)

tnx,

Paul AA1MI / HB9DST

11217. Re: ATS-4 locked in straight key mode

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-14 00:47:59 UTC
From: pgschreier
Topic: 11215 Message: 11217

Hi Dale,

Letting it sit for hours and longer seems to do nothing.

I did play around by changing bands and using the SP button and finally got it out of RIT mode so I can tune again.

However, I'm still stuck in straight key mode.

How does one go about giving an ATS-4 a brain transplant, if it comes to that?

73
Paul

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
> In the heat of "oh My.. it is broke" and somewhere on the way to "I need it..." there is a shuddering and realization... something.. went wrong. It is so easy to just start pushing buttons.. I know... I have rescued me from that a lot. Have you allowed it to sit.. say an hour without power. then without a key plugged in, power up. Is it in rit now? now plug in the paddle, is it in straight key?

11218. RE: [AT_Sprint] Re: ATS-4 locked in straight key mode

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-14 01:11:39 UTC
From: Dale Putnam
Topic: 11215 Message: 11218

Hi Paul,Can you use a DVM to measure ohms to ground... on each of the keying lines on your paddle? Then if you find a difference, and one side is low ohms... unplug from the radio.. see if it goes up?Bet it does. So the problem is in the radio... pop the lid off.. plug the paddle back in... measure the low side again.. still there? nope? or yes? No - problem is from jack to lid. be very cautious about letting the jack slip sideways.. the pin shorts to the lid.yes- the wires between the jack and the board are rather brittle.. and sometimes enough vibration will pop one loose to short. Still figure it is a brain issue? I swap the processor out with hot air.. but with a lot of care and focus on where the air is directed.. and for how long... the heat applied gets to the other side of the board quick... and messes up the buttons, so they suddenly need replacing too. IF you want to ship it here, I can do that or go a bit deeper before that drastic a measure.But the replacement IC is a bit of an issue... Steve is on the trail.. and I don't have any.. but from one that I have here that isn't built yet. Maybe I can borrow it, til he gets back. Which model 4 is it?

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: aa1mi@...
Date: Tue, 14 May 2013 00:47:59 +0000
Subject: [AT_Sprint] Re: ATS-4 locked in straight key mode

Hi Dale,

Letting it sit for hours and longer seems to do nothing.

I did play around by changing bands and using the SP button and finally got it out of RIT mode so I can tune again.

However, I'm still stuck in straight key mode.

How does one go about giving an ATS-4 a brain transplant, if it comes to that?

73

Paul

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:

>

> In the heat of "oh My.. it is broke" and somewhere on the way to "I need it..." there is a shuddering and realization... something.. went wrong. It is so easy to just start pushing buttons.. I know... I have rescued me from that a lot. Have you allowed it to sit.. say an hour without power. then without a key plugged in, power up. Is it in rit now? now plug in

the paddle, is it in straight key?

11219. RE: [AT_Sprint] Re: ATS-4 locked in straight key mode

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-14 02:24:36 UTC
From: Mike Olbrisch
Topic: 11215 Message: 11219

I'm just thinking out loud here.... but IIRC, it goes to straight key mode when you power it up with two contacts shorted at the key jack.

Was it me - I would use an ohm meter and probe around the key connections - looking for something shorting it.

Could still be a shorted processor input, but the jack and wires is a simple thing to look at before brain surgery.

Hope this helps.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of pgschreier
Sent: Monday, May 13, 2013 18:48
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: ATS-4 locked in straight key mode

Hi Dale,

Letting it sit for hours and longer seems to do nothing.

I did play around by changing bands and using the SP button and finally got it out of RIT mode so I can tune again.

However, I'm still stuck in straight key mode.

How does one go about giving an ATS-4 a brain transplant, if it comes to that?

73
Paul

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
> In the heat of "oh My.. it is broke" and somewhere on the way to "I need it..." there is a shuddering and realization... something.. went wrong. It is so easy to just start pushing buttons.. I know... I have rescued me from that a lot. Have you allowed it to sit.. say an hour without power. then without a key plugged in, power up. Is it in rit now? now plug in the paddle, is it in straight key?

Yahoo! Groups Links

11220. Re: [AT_Sprint] Re: ATS-4 locked in straight key mode

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-14 09:12:51 UTC
From: Colin Tuckley
Topic: 11215 Message: 11220

Quoting pgschreier <aa1mi@...>:

> I did play around by changing bands and using the SP button and
> finally got it out of RIT mode so I can tune again.
>
> However, I'm still stuck in straight key mode.
>
> How does one go about giving an ATS-4 a brain transplant, if it
> comes to that?

Looking through the Group message archive (which is always a good thing to do for cases like this) it appears to have happened to other people, it's something to do with saving the state when in straight key mode.

The way to get out of it appears to be to power up the rig with the menu button held down.

If that doesn't fix it then I'd suspect a hardware fault with the key input lines, hopefully it's not actually a microprocessor input that is damaged.

Colin G8TMV

11221. Re: ATS-4 locked in straight key mode

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-14 09:16:05 UTC
From: pgschreier
Topic: 11215 Message: 11221

Hi all,

Thanks for all the advice.

It turned out to be a mechanical/wiring error. Probably too much bouncing around in my backpack or something. Who knows?

Anyway, things are back to normal (for the moment) and I can start using my ATS4 with it's hot rx once again.

73
Paul

11222. hey must be in the air

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-15 02:31:57 UTC
From: james davidson
Topic: 11222 Message: 11222

have you ever had your ats4 first run rig jump to 17 meters . mine was built for 15 meters now when I set the switches to 15 and it reads 18068 how is that possible ????? maybe I am going crazy ! I know short trip huh! any how any help would be great thanks jim kc0dd

11223. RE: [AT_Sprint] hey must be in the air

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-15 02:38:37 UTC
From: Dale Putnam
Topic: 11222 Message: 11223

You may want to reflow the solder for the resistors that select the bands... particularly the one for 15...
they are on the front near the edge of the board, on the underneath of the buttons.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: jimni@netins.net
Date: Tue, 14 May 2013 21:31:57 -0500
Subject: [AT_Sprint] hey must be in the air

have you
ever had your ats4 first run rig jump to 17 meters . mine was built
for 15 meters now when I set the switches to 15 and it reads 18068 how is
that possible ????? maybe I am going crazy ! I know short trip huh! any how any
help would be great thanks jim kc0dd

11224. Toaster Oven Reflow Soldering

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-15 12:03:23 UTC
From: k4byf050431
Topic: 11224 Message: 11224

Do I have to complete populating a board before using the toaster oven method of soldering or I can I put the board into the oven each time I finish putting components on a small section of the board?

11225. MTR tracking number

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-15 14:36:21 UTC
From: f4gha
Topic: 11225 Message: 11225

Hi all,

Anyone knows if there is a postal tracking number for the MTR package ?

For the moment, I don't have received my MTR, I think the packet is in French Guiana for 3 weeks at least ! Always the same problem here...

But a tracking number could help me to know where is the packet.

For Steve, is he returned from his hike?

Thanks,
Loïc, FY8PE.

11226. Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-15 15:43:46 UTC
From: nj2e
Topic: 11180 Message: 11226

Could I be dealing with a Firmware problem? Is there a way
to check the version? Thanks, Don NJ2E

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> Dale..... and anyone else interested.
>
> Up until about 3 years ago, I was working as an electronics specialist in a
> power plant. I maintained ALL the pollution monitoring electronics, as well
> as many of the other plant systems. Soldering was something I did a lot of.
> In fact, had I still been at the plant, I probably would have attempted my
> ATS-4B using the plant SMD tools at lunch every day. I was just not
> equipped for that at home. Can't go back, plant is union, I am not union
> anymore. <grin>.
>
> ANYWAY....
>
> We used a product called Enviro-Tech Defluxer - 1676. This stuff would
> really wash the flux away. A few applications with a blast of canned
> compressed air in between, and it was clean. I was so impressed with it
> that I bought a case of 12 cans for the house too.
>
> I gave up a lot when I promoted up to the control center. No more
> professional soldering station, no more bead blaster, no more lathe, drill
> press, band-saw..... welder and plasma cutter..... But no more overtime
> either! And that was a blessing.
>
> Hope this helps someone.
>
> Enviro-Tech Defluxer - 1676. http://www.galco.com/buy/Techspray/1676-22S
>
> Oops - it says obsolete. Well - they had to replace it with something!
> Click on SEE ALTERNATIVES. Suddenly that case wasn't a bad idea after all.
> Wow - it got expensive too..... but you only need 1 can.
>
> Vy73 - Mike - KD9KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/
>
>
>
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of Dale Putnam
> Sent: Tuesday, May 07, 2013 17:35

> To: AT Sprint
> Subject: RE: [AT_Sprint] Re: ATS-4B Shutdown Problem
>
>
>
>
>
> Nope... sure isn't. I've had that happen before, a couple times, one was a
> Q8 failure, the other was simply rosin under the microprocessor, causing a
> lot of issues and the power issue was the most noticeable and easy to fix.
> Cleaning wasn't tho.
> Good Luck,
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> _____
>
> To: AT_Sprint@...m
> From: nj2e@...
> Date: Tue, 7 May 2013 23:23:34 +0000
> Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem
>
>
> Yes. Is this normal operation?
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> , Dale
> Putnam <daleputnam@> wrote:
> >
> > HI Don, Maybe I misunderstood. It starts up, when you connect the battery.
> Then if you tune around the band... then hold the function button, "off"
> appears but it does not shut off. The only way to shut off... is to
> disconnect the battery. Is that correct?
> >
> > Have a great day,
> >
> >
> > --... ...--
> > Dale - WC7S in Wy
> >
> >
> >
> > To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>
> > From: nj2e@
> > Date: Tue, 7 May 2013 21:35:35 +0000

> > Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem
> >
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> >
> > Understand that it will power up as soon as the battery is connected, but
> when I press and hold the "Function" button, "off" appears on the
> >
> > display. The frequency and other data remains on the display. Also I still
> hear noise in the headset. Holding S5 (On) doesn't clear the "Off", only
> disconnecting and reconnecting the battery will do that.
> >
> > Thanks, Don NJ2E
> >
> >
> >
> > --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> ,
> "Buddy Brown" <buddybrown@> wrote:
> >
> > >
> >
> > > If I am reading this "problem" correctly, this is normal operation.
> >
> > >
> >
> > > When you first connect power the radio will power up. After

> >
> > >
> >
> > > powering down the radio, does it stay powered down until you
> >
> > >
> >
> > > do a normal power up from the switch? It should power up/down
> >
> > >
> >
> > > normally until the battery is disconnected. Upon reconnection
> >
> > >
> >
> > > of the battery it will power up by itself the first time, each time.
> >
> > >
> >
> > > At least, this is the way mine works.
> >
> > >
> >
> > > Buddy - N5BUD
> >
> > >
> >
>

11227. Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-17 22:39:59 UTC
From: n1rx
Topic: 11180 Message: 11227

I haven't chimed in on this one yet. I haven't byuilt a '4B, but I built one of the first of the first run '4s. I believe a firmware problem is unlikely to cause your symptoms. I just downloaded the corrected CPU schematic for reference..

First off- The rig should NOT turn on as soon as you supply power. Q8 (the primary power pass transistor) is held OFF by R24. It stays off until it's gate is pulled low by the power on pushbutton. If the rig comes on immediately upon connecting the battery, one of 3 things is going on. Either Q8 is shorted (already replaced apparently) or the power switch is shorted, causing an always on condition, or- Q3 is providing the path to ground to keep Q8 on.

Ordinarily, when you turn the rig on by pushing the power button, Q8 conducts, supplying power to the MCU. When it wakes up, it turns on Q3, which keeps Q8 conducting. When you hold the function button down until OFF appears on the display, the MCU should turn off Q3 once you release the button, turning Q8 off. That's when the rig should "shut down". If it's not behaving like this, you need to find out if the switch is shorted, Q3 is shorted, or something else is keeping the gate of Q3 high. If you remove Q3, the rig should not turn on until you hold in the power button. It should then shut off as soon as you release it.

Good luck,
Bruce
N1RX

--- In AT_Sprint@yahoogroups.com, "nj2e" <nj2e@...> wrote:
>
> Could I be dealing with a Firmware problem? Is there a way
> to check the version? Thanks, Don NJ2E
>

11228. RE: [AT_Sprint] Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-17 22:47:42 UTC
From: Mike Olbrisch
Topic: 11180 Message: 11228

Gosh - my ATS-4 has a problem then.

After being off for a few hours, it ALWAYS powers up when the battery is connected the first time. After that, it is ON/OFF as expected until the end of the day when you disconnect the battery and put it away. The next time, it turns on again with the first application of power.

I was told this was normal. I guess I wasn't told the truth. Hope it won't damage anything, it is already packed and ready for our trip to Germany. If it will just hold on until I come back, then it can smoke!

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of n1rx
Sent: Friday, May 17, 2013 16:40
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem

I haven't chimed in on this one yet. I haven't byuilt a '4B, but I built one of the first of the first run '4s. I believe a firmware problem is unlikely to cause your symptoms. I just downloaded the corrected CPU schematic for reference..

First off- The rig should NOT turn on as soon as you supply power. Q8 (the primary power pass transistor) is held OFF by R24. It stays off until it's gate is pulled low by the power on pushbutton. If the rig comes on immediately upon connecting the battery, one of 3 things is going on. Either Q8 is shorted (already replaced apparently) or the power switch is shorted, causing an always on condition, or- Q3 is providing the path to ground to keep Q8 on.

Ordinarily, when you turn the rig on by pushing the power button, Q8 conducts, supplying power to the MCU. When it wakes up, it turns on Q3, which keeps Q8 conducting. When you hold the function button down until OFF appears on the display, the MCU should turn off Q3 once you release the button, turning Q8 off. That's when the rig should "shut down". If it's not behaving like this, you need to find out if the switch is shorted, Q3 is shorted, or something else is keeping the gate of Q3 high. If you remove Q3, the rig should not turn on until you hold in the power button. It should then shut off as soon as you release it.

Good luck,
Bruce
N1RX

--- In AT_Sprint@yahoogroups.com, "nj2e" <nj2e@...> wrote:
>
> Could I be dealing with a Firmware problem? Is there a way
> to check the version? Thanks, Don NJ2E
>

Yahoo! Groups Links

11229. Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-17 23:20:04 UTC
From: n1rx
Topic: 11180 Message: 11229

I'll have to dig mine out and check it again, Mike. I don't recall if mine shows this behaviour. I must be mis-remembering it's initial power applied behaviour. However, all of the other symptoms described, including not powering off, indicate that something is holding Q8 "on". The troubleshooting path I suggested is still valid.

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> Gosh - my ATS-4 has a problem then.
>
> After being off for a few hours, it ALWAYS powers up when the battery is
> connected the first time. After that, it is ON/OFF as expected until the
> end of the day when you disconnect the battery and put it away. The next
> time, it turns on again with the first application of power.
>
> I was told this was normal. I guess I wasn't told the truth. Hope it won't
> damage anything, it is already packed and ready for our trip to Germany. If
> it will just hold on until I come back, then it can smoke!
>
> Mike - KD9KC.
>
> -----Original Message-----
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of n1rx
> Sent: Friday, May 17, 2013 16:40
> To: AT_Sprint@yahoogroups.com
> Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem
>
> I haven't chimed in on this one yet. I haven't byuilt a '4B, but I built one
> of the first of the first run '4s. I believe a firmware problem is unlikely
> to cause your symptoms. I just downloaded the corrected CPU schematic for
> reference..
>
> First off- The rig should NOT turn on as soon as you supply power. Q8 (the
> primary power pass transistor) is held OFF by R24. It stays off until it's
> gate is pulled low by the power on pushbutton. If the rig comes on
> immediately upon connecting the battery, one of 3 things is going on. Either
> Q8 is shorted (already replaced apparently) or the power switch is shorted,
> causing an always on condition, or- Q3 is providing the path to ground to
> keep Q8 on.
>
> Ordinarily, when you turn the rig on by pushing the power button, Q8
> conducts, supplying power to the MCU. When it wakes up, it turns on Q3,
> which keeps Q8 conducting. When you hold the function button down until OFF
> appears on the display, the MCU should turn off Q3 once you release the
> button, turning Q8 off. That's when the rig should "shut down". If it's not

> behaving like this, you need to find out if the switch is shorted, Q3 is
> shorted, or something else is keeping the gate of Q3 high. If you remove Q3,
> the rig should not turn on until you hold in the power button. It should
> then shut off as soon as you release it.
>
> Good luck,
> Bruce
> N1RX
>
> --- In AT_Sprint@yahoogroups.com, "nj2e" <nj2e@> wrote:
> >
> > Could I be dealing with a Firmware problem? Is there a way
> > to check the version? Thanks, Don NJ2E
> >
>
>
>
>
> ---
>
> Yahoo! Groups Links
>

11230. Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-17 23:30:25 UTC
From: n1rx
Topic: 11180 Message: 11230

Of course, you are right, Mike. Capacitor C71 has to charge initially when power is applied. This has the same effect has pressing the power on button. Thanks for pointing this out.
73,
bruce
N1RX

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> Gosh - my ATS-4 has a problem then.
>
> After being off for a few hours, it ALWAYS powers up when the battery is
> connected the first time. After that, it is ON/OFF as expected until the
> end of the day when you disconnect the battery and put it away. The next
> time, it turns on again with the first application of power.
>
> I was told this was normal. I guess I wasn't told the truth. Hope it won't
> damage anything, it is already packed and ready for our trip to Germany. If
> it will just hold on until I come back, then it can smoke!
>
> Mike - KD9KC.
>
> -----Original Message-----
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of n1rx
> Sent: Friday, May 17, 2013 16:40
> To: AT_Sprint@yahoogroups.com
> Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem
>
> I haven't chimed in on this one yet. I haven't byuilt a '4B, but I built one
> of the first of the first run '4s. I believe a firmware problem is unlikely
> to cause your symptoms. I just downloaded the corrected CPU schematic for
> reference..
>
> First off- The rig should NOT turn on as soon as you supply power. Q8 (the
> primary power pass transistor) is held OFF by R24. It stays off until it's
> gate is pulled low by the power on pushbutton. If the rig comes on
> immediately upon connecting the battery, one of 3 things is going on. Either
> Q8 is shorted (already replaced apparently) or the power switch is shorted,
> causing an always on condition, or- Q3 is providing the path to ground to
> keep Q8 on.
>
> Ordinarily, when you turn the rig on by pushing the power button, Q8
> conducts, supplying power to the MCU. When it wakes up, it turns on Q3,
> which keeps Q8 conducting. When you hold the function button down until OFF

> appears on the display, the MCU should turn off Q3 once you release the
> button, turning Q8 off. That's when the rig should "shut down". If it's not
> behaving like this, you need to find out if the switch is shorted, Q3 is
> shorted, or something else is keeping the gate of Q3 high. If you remove Q3,
> the rig should not turn on until you hold in the power button. It should
> then shut off as soon as you release it.
>
> Good luck,
> Bruce
> N1RX
>
> --- In AT_Sprint@yahoogroups.com, "nj2e" <nj2e@> wrote:
> >
> > Could I be dealing with a Firmware problem? Is there a way
> > to check the version? Thanks, Don NJ2E
> >
>
>
>
>
> ---
>
> Yahoo! Groups Links
>

11231. RE: [AT_Sprint] Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-17 23:37:04 UTC
From: Mike Olbrisch
Topic: 11180 Message: 11231

WHEW - then this IS normal.... and I am not carrying a ticking time-bomb failure waiting to happen while on vacation. That is a relief.

My brother-in-law Helmut (DG7NFV) has a field-day party planned for my visit, the B-10 club meeting will be held on a summit near Bad Kissingen in June. Kind of a party for our visit. I expect my ATS-4B and 40-30-20-17-15m EFHWA system weighing less than 2 pounds will be a hit with the guys.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of n1rx
Sent: Friday, May 17, 2013 17:30
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem

Of course, you are right, Mike. Capacitor C71 has to charge initially when power is applied. This has the same effect has pressing the power on button. Thanks for pointing this out.
73,
bruce
N1RX

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> Gosh - my ATS-4 has a problem then.
>
> After being off for a few hours, it ALWAYS powers up when the battery is
> connected the first time. After that, it is ON/OFF as expected until the
> end of the day when you disconnect the battery and put it away. The next
> time, it turns on again with the first application of power.
>
> I was told this was normal. I guess I wasn't told the truth. Hope it
won't
> damage anything, it is already packed and ready for our trip to Germany.
If
> it will just hold on until I come back, then it can smoke!
>
> Mike - KD9KC.
>
> -----Original Message-----
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On
Behalf
> Of n1rx

> Sent: Friday, May 17, 2013 16:40
> To: AT_Sprint@yahoogroups.com
> Subject: [AT_Sprint] Re: ATS-4B Shutdown Problem
>
> I haven't chimed in on this one yet. I haven't byuilt a '4B, but I built
one
> of the first of the first run '4s. I believe a firmware problem is
unlikely
> to cause your symptoms. I just downloaded the corrected CPU schematic for
> reference..
>
> First off- The rig should NOT turn on as soon as you supply power. Q8 (the
> primary power pass transistor) is held OFF by R24. It stays off until it's
> gate is pulled low by the power on pushbutton. If the rig comes on
> immediately upon connecting the battery, one of 3 things is going on.
Either
> Q8 is shorted (already replaced apparently) or the power switch is
shorted,
> causing an always on condition, or- Q3 is providing the path to ground to
> keep Q8 on.
>
> Ordinarily, when you turn the rig on by pushing the power button, Q8
> conducts, supplying power to the MCU. When it wakes up, it turns on Q3,
> which keeps Q8 conducting. When you hold the function button down until
OFF
> appears on the display, the MCU should turn off Q3 once you release the
> button, turning Q8 off. That's when the rig should "shut down". If it's
not
> behaving like this, you need to find out if the switch is shorted, Q3 is
> shorted, or something else is keeping the gate of Q3 high. If you remove
Q3,
> the rig should not turn on until you hold in the power button. It should
> then shut off as soon as you release it.
>
> Good luck,
> Bruce
> N1RX
>
> --- In AT_Sprint@yahoogroups.com, "nj2e" <nj2e@> wrote:
> >
> > Could I be dealing with a Firmware problem? Is there a way
> > to check the version? Thanks, Don NJ2E
> >
>
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> ------------------------------------
>
> Yahoo! Groups Links

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Yahoo! Groups Links

11232. Re: ATS-4B Shutdown Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-17 23:39:41 UTC
From: n1rx
Topic: 11180 Message: 11232

Please disregard the paragraph below about intitial power application. The rig should come on when power is first applied. Approach your troubleshooting of this power issue from the second paragraph. Figure out why it is not shutting off, by checking the operation of the transistor (Q3) that controls Q8. Once the rig is on, you should see a logic "high" signal on the gate of Q3 (about 2.3-3.2v). When you hold the function button until "OFF" appears on the display, the gate should go low (close to zero volts), after you release the button, to turn off Q3.
GL,
Bruce
N1RX

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
>
> I haven't chimed in on this one yet. I haven't byuilt a '4B, but I built one of the first of the first run '4s. I believe a firmware problem is unlikely to cause your symptoms. I just downloaded the corrected CPU schematic for reference..
>
> First off- The rig should NOT turn on as soon as you supply power. Q8 (the primary power pass transistor) is held OFF by R24. It stays off until it's gate is pulled low by the power on pushbutton. If the rig comes on immediately upon connecting the battery, one of 3 things is going on. Either Q8 is shorted (already replaced apparently) or the power switch is shorted, causing an always on condition, or- Q3 is providing the path to ground to keep Q8 on.
>
> Ordinarily, when you turn the rig on by pushing the power button, Q8 conducts, supplying power to the MCU. When it wakes up, it turns on Q3, which keeps Q8 conducting. When you hold the function button down until OFF appears on the display, the MCU should turn off Q3 once you release the button, turning Q8 off. That's when the rig should "shut down". If it's not behaving like this, you need to find out if the switch is shorted, Q3 is shorted, or something else is keeping the gate of Q3 high. If you remove Q3, the rig should not turn on until you hold in the power button. It should then shut off as soon as you release it.
>
> Good luck,
> Bruce
> N1RX
>
> --- In AT_Sprint@yahoogroups.com, "nj2e" <nj2e@> wrote:
> >
> > Could I be dealing with a Firmware problem? Is there a way
> > to check the version? Thanks, Don NJ2E
> >
>

11233. Connecting a frequency display to a ATS 3b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-18 23:28:06 UTC
From: ac0bq
Topic: 11233 Message: 11233

Ga:
I am finishing up a ATS 3B and I have one of Steve's
Frequency displays I want to hook up to it.
Where do I pick the VFO Frequency up at?
How much offset do I need?
Thanks in advance
Johnny AC0BQ

11234. Re: Connecting a frequency display to a ATS 3b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-19 01:35:54 UTC
From: William
Topic: 11233 Message: 11234

Johnny,
Dale wrote about this before. Try this:
http://groups.yahoo.com/group/AT_Sprint/message/6021

Bill,wv1n

--- In AT_Sprint@yahoogroups.com, "ac0bq" <jomatlock@...> wrote:
>
> Ga:
> I am finishing up a ATS 3B and I have one of Steve's
> Frequency displays I want to hook up to it.
> Where do I pick the VFO Frequency up at?
> How much offset do I need?
> Thanks in advance
> Johnny AC0BQ
>

11235. Re: [AT_Sprint] Connecting a frequency display to a ATS 3b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-19 13:00:03 UTC
From: Johnny Matlock
Topic: 11233 Message: 11235

Tnx for the note, Bill.
I had searched the messages, but my results were not exactly what I wanted!
I will give that a try!
72
Johnny AC0BQ

On Saturday, May 18, 2013, William wrote:

> **
>
>
> Johnny,
> Dale wrote about this before. Try this:
> http://groups.yahoo.com/group/AT_Sprint/message/6021
>
> Bill,wv1n
>
> --- In AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint%40yahoogroups.com');>, "ac0bq" <jomatlock@...> wrote:
> >
> > Ga:
> > I am finishing up a ATS 3B and I have one of Steve's
> > Frequency displays I want to hook up to it.
> > Where do I pick the VFO Frequency up at?
> > How much offset do I need?
> > Thanks in advance
> > Johnny AC0BQ
> >
>
>
>

11236. RE: [AT_Sprint] Connecting a frequency display to a ATS 3b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-19 13:33:58 UTC
From: Dale Putnam
Topic: 11233 Message: 11236

Yep, that's the one, Johnny... and because the mixing is different on 80... it won't play there..
IF you set the DD for 40 - 15... OR.. it plays right nice on 80, but not on the rest of the bands.
I even thought about having two DD connected... one just for 80. It gets a bit unwieldy that way tho.
Good Luck!!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: jomatlock@...
Date: Sun, 19 May 2013 08:00:03 -0500
Subject: Re: [AT_Sprint] Connecting a frequency display to a ATS 3b

Tnx for the note, Bill.I had searched the messages, but my results were not exactly what I wanted!I will give that a try!72Johnny AC0BQ

On Saturday, May 18, 2013, William wrote:

Johnny,

Dale wrote about this before. Try this:
http://groups.yahoo.com/group/AT_Sprint/message/6021

Bill,wv1n

--- In AT_Sprint@yahoogroups.com, "ac0bq" <jomatlock@...> wrote:

>

> Ga:

> I am finishing up a ATS 3B and I have one of Steve's

> Frequency displays I want to hook up to it.

> Where do I pick the VFO Frequency up at?

> How much offset do I need?

> Thanks in advance

> Johnny AC0BQ

>

11237. Re: Connecting a frequency display to a ATS 3b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-19 16:10:41 UTC
From: n1rx
Topic: 11233 Message: 11237

The firmware in the MCU used in the QBSA allowed it to work on all the bands on my ATS3, including 80M. Perhaps Steve would consider making a version of the Digital Dial with similar firmware, to recognize the RX DDS Frequencies, and provide the approprite operating freq display. Or offer an MCU exchange program, for unbuilt kits.

As we non-programmers like to say, it's just a simple matter of programming, right?
73,
Bruce
N1RX

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
> Yep, that's the one, Johnny... and because the mixing is different on 80... it won't play there..
> IF you set the DD for 40 - 15... OR.. it plays right nice on 80, but not on the rest of the bands.
> I even thought about having two DD connected... one just for 80. It gets a bit unwieldy that way tho.
> Good Luck!!
>
> Have a great day,
>
>
> --... ...--
> Dale - WC7S in Wy
>
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>
> To: AT_Sprint@yahoogroups.com
> From: jomatlock@...
> Date: Sun, 19 May 2013 08:00:03 -0500
> Subject: Re: [AT_Sprint] Connecting a frequency display to a ATS 3b
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> Tnx for the note, Bill.I had searched the messages, but my results were not exactly what I wanted!I will give that a try!72Johnny AC0BQ
>
> On Saturday, May 18, 2013, William wrote:
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> Johnny,
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> Dale wrote about this before. Try this:
http://groups.yahoo.com/group/AT_Sprint/message/6021
>
>

>
> Bill,wv1n
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>
> --- In AT_Sprint@yahoogroups.com, "ac0bq" <jomatlock@> wrote:
>
> >
>
> > Ga:
>
> > I am finishing up a ATS 3B and I have one of Steve's
>
> > Frequency displays I want to hook up to it.
>
> > Where do I pick the VFO Frequency up at?
>
> > How much offset do I need?
>
> > Thanks in advance
>
> > Johnny AC0BQ
>
> >
>

11238. Re: [AT_Sprint] Re: Connecting a frequency display to a ATS 3b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-19 16:58:59 UTC
From: Johnny Matlock
Topic: 11233 Message: 11238

Gm Guys:
Well Bruce that would be a thought.
I tried Dales suggestions, and it works, but it's not worth the pain is not worth the gain!!
I am gonna mount the little rig in a small "Pelcan" box I found and forget the display!
Thanks
72
Johnny AC0BQ

On Sun, May 19, 2013 at 11:10 AM, n1rx <bruce.beford@...> wrote:

> **
>
>
> The firmware in the MCU used in the QBSA allowed it to work on all the
> bands on my ATS3, including 80M. Perhaps Steve would consider making a
> version of the Digital Dial with similar firmware, to recognize the RX DDS
> Frequencies, and provide the approprite operating freq display. Or offer an
> MCU exchange program, for unbuilt kits.
>
> As we non-programmers like to say, it's just a simple matter of
> programming, right?
> 73,
> Bruce
> N1RX
>
>
> --- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
> >
> > Yep, that's the one, Johnny... and because the mixing is different on
> 80... it won't play there..
> > IF you set the DD for 40 - 15... OR.. it plays right nice on 80, but not
> on the rest of the bands.
> > I even thought about having two DD connected... one just for 80. It gets
> a bit unwieldy that way tho.
> > Good Luck!!
> >
> > Have a great day,
> >
> >
> > --... ...--
> > Dale - WC7S in Wy
> >
> >

> >
> >
> > To: AT_Sprint@yahoogroups.com
> > From: jomatlock@...
>
> > Date: Sun, 19 May 2013 08:00:03 -0500
> > Subject: Re: [AT_Sprint] Connecting a frequency display to a ATS 3b
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> > Tnx for the note, Bill.I had searched the messages, but my results were
> not exactly what I wanted!I will give that a try!72Johnny AC0BQ
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> > On Saturday, May 18, 2013, William wrote:
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> > Johnny,
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> > Dale wrote about this before. Try this:
> http://groups.yahoo.com/group/AT_Sprint/message/6021
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> >
> > Bill,wv1n
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> >
> > --- In AT_Sprint@yahoogroups.com, "ac0bq" <jomatlock@> wrote:
> >
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> >
> > > Ga:
> >
> > > I am finishing up a ATS 3B and I have one of Steve's
> >
> > > Frequency displays I want to hook up to it.
> >
> > > Where do I pick the VFO Frequency up at?
> >
> > > How much offset do I need?
> >
> > > Thanks in advance
> >
> > > Johnny AC0BQ
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11239. Re: Connecting a frequency display to a ATS 3b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-19 17:15:36 UTC
From: n1rx
Topic: 11233 Message: 11239

Since the user of an ATS-series rig is by definition, a "know code" amateur radio operator, having the Morse readout of frequency is usually adequate... 8-)

Have fun!
Bruce
N1RX

--- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@...> wrote:
>
> Gm Guys:
> Well Bruce that would be a thought.
> I tried Dales suggestions, and it works, but it's not worth the pain is not
> worth the gain!!
> I am gonna mount the little rig in a small "Pelcan" box I found and forget
> the display!
> Thanks
> 72
> Johnny AC0BQ
>
>
> On Sun, May 19, 2013 at 11:10 AM, n1rx <bruce.beford@...> wrote:
>
> > **
> >
> >
> > The firmware in the MCU used in the QBSA allowed it to work on all the
> > bands on my ATS3, including 80M. Perhaps Steve would consider making a
> > version of the Digital Dial with similar firmware, to recognize the RX DDS
> > Frequencies, and provide the approprite operating freq display. Or offer an
> > MCU exchange program, for unbuilt kits.
> >
> > As we non-programmers like to say, it's just a simple matter of
> > programming, right?
> > 73,
> > Bruce
> > N1RX
> >
> >
> > --- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@> wrote:
> > >
> > > Yep, that's the one, Johnny... and because the mixing is different on
> > 80... it won't play there..
> > > IF you set the DD for 40 - 15... OR.. it plays right nice on 80, but not
> > on the rest of the bands.
> > > I even thought about having two DD connected... one just for 80. It gets

> > a bit unwieldy that way tho.
> > > Good Luck!!
> > >
> > > Have a great day,
> > >
> > >
> > > --... ...--
> > > Dale - WC7S in Wy
> > >
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> > >
> > > To: AT_Sprint@yahoogroups.com
> > > From: jomatlock@
> >
> > > Date: Sun, 19 May 2013 08:00:03 -0500
> > > Subject: Re: [AT_Sprint] Connecting a frequency display to a ATS 3b
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> > > Tnx for the note, Bill.I had searched the messages, but my results were
> > not exactly what I wanted!I will give that a try!72Johnny AC0BQ
> >
> > >
> > > On Saturday, May 18, 2013, William wrote:
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> > > Johnny,
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> > > Dale wrote about this before. Try this:
> > http://groups.yahoo.com/group/AT_Sprint/message/6021
> > >
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> > >
> > > Bill,wv1n
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> > >
> > > --- In AT_Sprint@yahoogroups.com, "ac0bq" <jomatlock@> wrote:
> > >
> > > >
> > >
> > > > Ga:
> > >
> > > > I am finishing up a ATS 3B and I have one of Steve's
> > >
> > > > Frequency displays I want to hook up to it.
> > >
> > > > Where do I pick the VFO Frequency up at?
> > >
> > > > How much offset do I need?
> > >
> > > > Thanks in advance

> > >
> > > > Johnny AC0BQ
> > >
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11240. Old and New technology (MTR) at NearFest XIII

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-19 21:50:16 UTC
From: n1rx
Topic: 11240 Message: 11240

For those interested.

Burt (K1OIK) has been making videos at our regional semi-annual HAM flea (HossTraders, now NearFest) for many years. He shares them on YouTube after each 'fest. Earlier this month, he stopped by my table and asked me to say a few words about a couple items I had. Here's the video he posted this morning:

http://youtu.be/L-l_kXLMvYM

Bruce
N1RX

11241. Re: Old and New technology (MTR) at NearFest XIII

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-20 00:48:18 UTC
From: ab1dr
Topic: 11240 Message: 11241

Bruce...that was a great interview...nice job. BTW.. I think Burt was pretty impressed with the Mountain Topper!!!

72/88
K1QO

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
>
> For those interested.
>
> Burt (K1OIK) has been making videos at our regional semi-annual HAM flea (HossTraders, now NearFest) for many years. He shares them on YouTube after each 'fest. Earlier this month, he stopped by my table and asked me to say a few words about a couple items I had. Here's the video he posted this morning:
>
> http://youtu.be/L-l_kXLMvYM
>
> Bruce
> N1RX
>

11242. Re: Old and New technology (MTR) at NearFest XIII

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-20 13:55:25 UTC
From: n1rx
Topic: 11240 Message: 11242

Thanks, Anne. I think he was too. Just wish the near-focus on the camera had been better. That's why he added the still shots of the board later.
72/88 & see you at TPB (Lobstercon)!
Bruce

--- In AT_Sprint@yahoogroups.com, "ab1dr" <AB1DR@...> wrote:
>
> Bruce...that was a great interview...nice job. BTW.. I think Burt was pretty impressed with the Mountain Topper!!!
>
> 72/88
> K1QO
>
> --- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@> wrote:
> >
> > For those interested.
> >
> > Burt (K1OIK) has been making videos at our regional semi-annual HAM flea (HossTraders, now NearFest) for many years. He shares them on YouTube after each 'fest. Earlier this month, he stopped by my table and asked me to say a few words about a couple items I had. Here's the video he posted this morning:
> >
> > http://youtu.be/L-l_kXLMvYM
> >
> > Bruce
> > N1RX
> >
>

11243. Re: [AT_Sprint] Old and New technology (MTR) at NearFest XIII

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-20 14:27:08 UTC
From: Johnny Matlock
Topic: 11240 Message: 11243

Good Job Bruce!
I was waiting to see if the antique tube rig was Qrp or not!!!!
Nice little plug for the AT line.
72
Johnny AC0BQ

On Sunday, May 19, 2013, n1rx wrote:

> **
>
>
> For those interested.
>
> Burt (K1OIK) has been making videos at our regional semi-annual HAM flea
> (HossTraders, now NearFest) for many years. He shares them on YouTube after
> each 'fest. Earlier this month, he stopped by my table and asked me to say
> a few words about a couple items I had. Here's the video he posted this
> morning:
>
> http://youtu.be/L-l_kXLMvYM
>
> Bruce
> N1RX
>
>
>
>

11244. Re: MTR tracking number

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-22 18:16:37 UTC
From: f4gha
Topic: 11225 Message: 11244

Hi all,

For DX orders, what's the postal service employed ? FEDEX ? UPS ?

Thanks.

Loïc, FY8PE.

11245. Re: [AT_Sprint] Re: MTR tracking number

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-22 20:06:34 UTC
From: Robert Bradshaw
Topic: 11225 Message: 11245

I think it was USPS priority mail. Didnt have any tracking. I've had mine for a while now...

2E0ETN Rob
On 22 May 2013 19:16, "f4gha" <comax@hotmail.com> wrote:

> **
>
>
> Hi all,
>
> For DX orders, what's the postal service employed ? FEDEX ? UPS ?
>
> Thanks.
>
> Loïc, FY8PE.
>
>
>

11246. How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-22 20:35:19 UTC
From: William
Topic: 11246 Message: 11246

Not sure if this is a duplicate post but can anyone tell me how I can buy one of the MTR kits?

Thanks
Will
KT5W

11247. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-22 20:41:58 UTC
From: mdweezer
Topic: 11246 Message: 11247

Will,

They were a limited run of 150 units or so and they sold out within hours. Only option now is finding someone willing to part with their kit.

73,
-Matt, W2MDW

--- In AT_Sprint@yahoogroups.com, "William" <will.hermann@...> wrote:
>
> Not sure if this is a duplicate post but can anyone tell me how I can buy one of the MTR kits?
>
> Thanks
> Will
> KT5W
>

11248. Re: [AT_Sprint] Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-22 20:50:37 UTC
From: Kevin Kleinfelter
Topic: 11246 Message: 11248

Or, contact the designer, get the file for the PCB layout, and get permission to do your own run of 150 (or 300 or more). You and I can't be the only people who wish we hadn't missed the boat. I'd happily pay more than the original price.

If someone is motivated to do this, Kickstarter would be a way to measure interest. I'd certainly pledge.
Kevin / K4KPK

On Wed, May 22, 2013 at 4:41 PM, mdweezer <matthew.d.williams@...>wrote:

> **
>
>
> Will,
>
> They were a limited run of 150 units or so and they sold out within hours.
> Only option now is finding someone willing to part with their kit.
>
> 73,
> -Matt, W2MDW
>
>
> --- In AT_Sprint@yahoogroups.com, "William" <will.hermann@...> wrote:
> >
> > Not sure if this is a duplicate post but can anyone tell me how I can
> buy one of the MTR kits?
> >
> > Thanks
> > Will
> > KT5W
> >
>
>
>

11249. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-23 03:36:57 UTC
From: William
Topic: 11246 Message: 11249

Hmmm Kevin you may be on to something...although the original owner would probably want/deserve some royalties for coming up with the original design.

--- In AT_Sprint@yahoogroups.com, Kevin Kleinfelter <kleinfelter.groups@...> wrote:
>
> Or, contact the designer, get the file for the PCB layout, and get
> permission to do your own run of 150 (or 300 or more). You and I can't be
> the only people who wish we hadn't missed the boat. I'd happily pay more
> than the original price.
>
> If someone is motivated to do this, Kickstarter would be a way to measure
> interest. I'd certainly pledge.
> Kevin / K4KPK
>
> On Wed, May 22, 2013 at 4:41 PM, mdweezer <matthew.d.williams@...>wrote:
>
> > **
> >
> >
> > Will,
> >
> > They were a limited run of 150 units or so and they sold out within hours.
> > Only option now is finding someone willing to part with their kit.
> >
> > 73,
> > -Matt, W2MDW
> >
> >
> > --- In AT_Sprint@yahoogroups.com, "William" <will.hermann@> wrote:
> > >
> > > Not sure if this is a duplicate post but can anyone tell me how I can
> > buy one of the MTR kits?
> > >
> > > Thanks
> > > Will
> > > KT5W
> > >
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>

11250. Re: [AT_Sprint] Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-23 11:16:17 UTC
From: Bob Citronberg
Topic: 11246 Message: 11250

I have both an unbuilt mtr (1st run) ?and ats4b

i?may sell one or both...trying in next few days to figure on a price.....Bob ki4ght

-----Original Message-----
From: William
Sent: May 22, 2013 11:36 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: How to purchase an MTR?

?

Hmmm Kevin you may be on to something...although the original owner would probably
want/deserve some royalties for coming up with the original design.

--- In AT_Sprint@yahoogroups.com, Kevin Kleinfelter wrote:
>
> Or, contact the designer, get the file for the PCB layout, and get
> permission to do your own run of 150 (or 300 or more). You and I can't be
> the only people who wish we hadn't missed the boat. I'd happily pay more
> than the original price.
>
> If someone is motivated to do this, Kickstarter would be a way to measure
> interest. I'd certainly pledge.
> Kevin / K4KPK
>
> On Wed, May 22, 2013 at 4:41 PM, mdweezer wrote:
>
> > **
> >
> >
> > Will,
> >
> > They were a limited run of 150 units or so and they sold out within hours.
> > Only option now is finding someone willing to part with their kit.
> >
> > 73,
> > -Matt, W2MDW
> >
> >
> > --- In AT_Sprint@yahoogroups.com, "William" wrote:
> > >
> > > Not sure if this is a duplicate post but can anyone tell me how I can
> > buy one of the MTR kits?
> > >
> > > Thanks

> > > Will
> > > KT5W
> > >
>; >
> >
> >
>

11251. Re: MTR tracking number

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-23 22:06:50 UTC
From: f4gha
Topic: 11225 Message: 11251

Hi Rob,

Thanks Rob !
I will leave FY on the 15 July approx...
I ordered the MTR for islands activations, but now, I just want to get it before leaving the country !

Loïc, FY8PE.

--- In AT_Sprint@yahoogroups.com, Robert Bradshaw <robjbrad@...> wrote:
>
> I think it was USPS priority mail. Didnt have any tracking. I've had mine
> for a while now...
>
> 2E0ETN Rob
> On 22 May 2013 19:16, "f4gha" <comax@...> wrote:
>
> > **
> >
> >
> > Hi all,
> >
> > For DX orders, what's the postal service employed ? FEDEX ? UPS ?
> >
> > Thanks.
> >
> > Loïc, FY8PE.
> >
> >
> >
>

11252. Side tone issue

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-24 04:06:47 UTC
From: Steven Bornstein
Topic: 11252 Message: 11252

Trying to get mt MTR working but am having a side tone problem. Digits are displayed but no side tone. No side tone from keyer either. Have tried to turn audio on "P" down.
Any ideas. Don't see audio at pin 3 of U-10.
73' Steve K8IDN

11253. Re: Side tone issue

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-24 10:45:21 UTC
From: n1rx
Topic: 11252 Message: 11253

Possibly a short between pin 3 (side tine out) and pin 4 (Vss, or ground), or pin 2 (Vdd, or *3.3v).

GL,
Bruce
N1RX

--- In AT_Sprint@yahoogroups.com, "Steven Bornstein" <saborns@...> wrote:
>
> Trying to get mt MTR working but am having a side tone problem. Digits are displayed but no side tone. No side tone from keyer either. Have tried to turn audio on "P" down.
> Any ideas. Don't see audio at pin 3 of U-10.
> 73' Steve K8IDN
>

11254. RE: [AT_Sprint] Side tone issue

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-24 11:52:25 UTC
From: Dale Putnam
Topic: 11252 Message: 11254

Hi Steve,
With the radio off, using a dvm, is there a short to ground on pin 3 of U10? But before that, are the regulated voltages good? U10 must see 3.3 on pin 2 to start. Maybe a really good look for soldering that isn't quite there, or a short somewhere?

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: saborns@...m
Date: Fri, 24 May 2013 04:06:47 +0000
Subject: [AT_Sprint] Side tone issue

Trying to get mt MTR working but am having a side tone problem. Digits are displayed but no side tone. No side tone from keyer either. Have tried to turn audio on "P" down.

Any ideas. Don't see audio at pin 3 of U-10.

73' Steve K8IDN

11255. Re: [AT_Sprint] Re: Side tone issue

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-24 16:02:13 UTC
From: Steven
Topic: 11252 Message: 11255

No short on pin 3 or on path to R28. 3.3 v appears where it should. I had a difficult time finding pin 1 of U9. It is installed with the part ID inverted.

Sent from my iPad

On May 24, 2013, at 6:45, "n1rx" <bruce.beford@myfairpoint.net> wrote:

> Possibly a short between pin 3 (side tine out) and pin 4 (Vss, or ground), or pin 2 (Vdd, or *3.3v).
>
> GL,
> Bruce
> N1RX
>
> --- In AT_Sprint@yahoogroups.com, "Steven Bornstein" <saborns@...> wrote:
>>
>> Trying to get mt MTR working but am having a side tone problem. Digits are displayed but no side tone. No side tone from keyer either. Have tried to turn audio on "P" down.
>> Any ideas. Don't see audio at pin 3 of U-10.
>> 73' Steve K8IDN
>>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

11256. Re: Side tone issue

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-24 16:52:34 UTC
From: ab6wl
Topic: 11252 Message: 11256

Hello Steve,

What is the voltage at pin 19 of U10 (easier to measure at the junction of R29 and R39)? It should be a little more than 1/10 of your supply voltage, e.g., about 1.1V if your supply voltage is 9V or 1.4V if your supply voltage is 12V. I found that no voltage at pin 19 meant no sidetone either.

Also, is the MTR actually transmitting when you key it so that there is are pulses out of pin 24 of U10 (easier to detect at R26)?

Earle
AB6WL

--- In AT_Sprint@yahoogroups.com, "Steven Bornstein" <saborns@...> wrote:
>
> Trying to get mt MTR working but am having a side tone problem. Digits are displayed but no side tone. No side tone from keyer either. Have tried to turn audio on "P" down.
> Any ideas. Don't see audio at pin 3 of U-10.
> 73' Steve K8IDN
>

11257. Side tone Issue

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-25 03:58:39 UTC
From: Steven Bornstein
Topic: 11257 Message: 11257

If I inject an audio signal at R28 I have output. There is continuity from U10 pin 3 to R28. For some reason I don't have side tone at pin 3. I do have "faint" clicks when the display functions or when I use the paddle.

I have not tested the transmit as I was following the alignment and test procedure.
73 Steve K8IDN

11258. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-25 02:22:31 UTC
From: rarthur22
Topic: 11246 Message: 11258

Hi Kevin,
I am new to this group also. I was so interested in the radio from all of the reviews that I read about it, I got really brave and I actually did contact Steve and asked him if he would be willing to send me the board artwork etc, so I could build one myself. Not surprisingly he was not willing to part with the design. (I wouldn't have either, but I had to ask.) I totally understand and support his decision not to. He must have a tremendous amount of time and work in it.

Maybe if there is enough interest here he would consider making another run. I would be willing to prepay for the unit if that would help.
Bob/KG6ZDN
--- In AT_Sprint@yahoogroups.com, "William" <will.hermann@...> wrote:
>
> Hmmm Kevin you may be on to something...although the original owner would probably want/deserve some royalties for coming up with the original design.
>
> --- In AT_Sprint@yahoogroups.com, Kevin Kleinfelter <kleinfelter.groups@> wrote:
> >
> > Or, contact the designer, get the file for the PCB layout, and get
> > permission to do your own run of 150 (or 300 or more). You and I can't be
> > the only people who wish we hadn't missed the boat. I'd happily pay more
> > than the original price.
> >
> > If someone is motivated to do this, Kickstarter would be a way to measure
> > interest. I'd certainly pledge.
> > Kevin / K4KPK
> >
> > On Wed, May 22, 2013 at 4:41 PM, mdweezer <matthew.d.williams@>wrote:
> >
> > > **
> > >
> > >
> > > Will,
> > >
> > > They were a limited run of 150 units or so and they sold out within hours.
> > > Only option now is finding someone willing to part with their kit.
> > >
> > > 73,
> > > -Matt, W2MDW
> > >
> > >
> > > --- In AT_Sprint@yahoogroups.com, "William" <will.hermann@> wrote:
> > > >
> > > > Not sure if this is a duplicate post but can anyone tell me how I can
> > > buy one of the MTR kits?

```
> > > >
> > > > Thanks
> > > > Will
> > > > KT5W
> > > >
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11259. Looking for an ATS-4b enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-25 17:15:45 UTC
From: rasteenb
Topic: 11259 Message: 11259

Does anybody have a Ten-Tec ATS-4b enclosure they'd sell?

Thanks,
Rob

11260. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-26 05:49:52 UTC
From: William
Topic: 11246 Message: 11260

Count me in as well.
Will/KT5W

--- In AT_Sprint@yahoogroups.com, "rarthur22" <rarthur22@...> wrote:
>
> Hi Kevin,
> I am new to this group also. I was so interested in the radio from all of the reviews that I read about it, I got really brave and I actually did contact Steve and asked him if he would be willing to send me the board artwork etc, so I could build one myself. Not surprisingly he was not willing to part with the design. (I wouldn't have either, but I had to ask.) I totally understand and support his decision not to. He must have a tremendous amount of time and work in it.
>
> Maybe if there is enough interest here he would consider making another run. I would be willing to prepay for the unit if that would help.
> Bob/KG6ZDN
> --- In AT_Sprint@yahoogroups.com, "William" <will.hermann@> wrote:
> >
> > Hmmm Kevin you may be on to something...although the original owner would probably want/deserve some royalties for coming up with the original design.
> >
> > --- In AT_Sprint@yahoogroups.com, Kevin Kleinfelter <kleinfelter.groups@> wrote:
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> > > Or, contact the designer, get the file for the PCB layout, and get
> > > permission to do your own run of 150 (or 300 or more). You and I can't be
> > > the only people who wish we hadn't missed the boat. I'd happily pay more
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> > > If someone is motivated to do this, Kickstarter would be a way to measure
> > > interest. I'd certainly pledge.
> > > Kevin / K4KPK
> > >
> > > On Wed, May 22, 2013 at 4:41 PM, mdweezer <matthew.d.williams@>wrote:
> > >
> > > > **
> > > >
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> > > > Will,
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> > > > They were a limited run of 150 units or so and they sold out within hours.
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> > > > 73,
> > > > -Matt, W2MDW
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> > > >
> > > > --- In AT_Sprint@yahoogroups.com, "William" <will.hermann@> wrote:
> > > > >
> > > > > Not sure if this is a duplicate post but can anyone tell me how I can
> > > > buy one of the MTR kits?
> > > > >
> > > > > Thanks
> > > > > Will
> > > > > KT5W
> > > > >
> > > >
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11261. Re: [AT_Sprint] Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-26 13:22:12 UTC
From: Gilbert Gibbs
Topic: 11246 Message: 11261

Bob, Kevin;

Getting Steve to round up another 150 or more kits, along with the contracted-out case for the MTR, is a little like asking someone to forget their private lives and go to a psych ward for six months to a year! However, if he got barnstormed with a 200-kit per op "order", and the money to fiance everything, he might just come out of hiding and do it again. I failed to send in my check "in confidence" long before he got the last series out, as did several others, so I'm looking at all kinds of metal boxes of the approximate size to enclose my one MTR kit. Don't feel bad, I thought I had my year all set up for "one item at a time" to get too many items done, then Murphy came along, my sister told me to think about having my rather small "hobby cabin" centrally air conditioned and heated, due to window units that are MIC (Made In China), predestined to send to the recycle system after bad manufacture and LOUSY construction, and a central system would cost only a little more. My gear and every expensive ham radio and hi-fi system item would do well with a dehumidified structure for the first time ever, I wouldn't fry my brains while I try to make sense out of SMT parts as I get "too many" kits in line to assemble.
One brave soul needs to be bold with Steve, get his attention, then urge him along with a solid money order or whatever, and wait a year. I'm just now coming out of my nose dive into a tuberculosis "booster shot" that I was due for at my age, a lifetime after the last one was given out post W.W. II, so I'm going to be making haste on everything I look at during the night time. Down here in South Texas, on Mustang Island, I have to be prepared to act appropriately to a hurricane warning, drive some 90 miles to my house of safety - and set up my rigs!

Good luck to the first one to make the motion for Steve to get interested again, since he might be on yet another project.

73's
Gil WA5YKK

On 5/26/2013 12:49 AM, William wrote:
>
> Count me in as well.
> Will/KT5W
>
> --- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>,
> "rarthur22" <rarthur22@...> wrote:
> >
> > Hi Kevin,
> > I am new to this group also. I was so interested in the radio from
> all of the reviews that I read about it, I got really brave and I

> actually did contact Steve and asked him if he would be willing to
> send me the board artwork etc, so I could build one myself. Not
> surprisingly he was not willing to part with the design. (I wouldn't
> have either, but I had to ask.) I totally understand and support his
> decision not to. He must have a tremendous amount of time and work in it.
> >
> > Maybe if there is enough interest here he would consider making
> another run. I would be willing to prepay for the unit if that would help.
> > Bob/KG6ZDN
> > --- In AT_Sprint@yahoogroups.com
> <mailto:AT_Sprint%40yahoogroups.com>, "William" <will.hermann@> wrote:
> > >
> > > Hmmm Kevin you may be on to something...although the original
> owner would probably want/deserve some royalties for coming up with
> the original design.
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> > > --- In AT_Sprint@yahoogroups.com
> <mailto:AT_Sprint%40yahoogroups.com>, Kevin Kleinfelter
> <kleinfelter.groups@> wrote:
> > > >
> > > > Or, contact the designer, get the file for the PCB layout, and get
> > > > permission to do your own run of 150 (or 300 or more). You and I
> can't be
> > > > the only people who wish we hadn't missed the boat. I'd happily
> pay more
> > > > than the original price.
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> > > > If someone is motivated to do this, Kickstarter would be a way
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> > > > Kevin / K4KPK
> > > >
> > > > On Wed, May 22, 2013 at 4:41 PM, mdweezer
> <matthew.d.williams@>wrote:
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> > > > >
> > > > >
> > > > > Will,
> > > > >
> > > > > They were a limited run of 150 units or so and they sold out
> within hours.
> > > > > Only option now is finding someone willing to part with their kit.
> > > > >
> > > > > 73,
> > > > > -Matt, W2MDW
> > > > >
> > > > >
> > > > > --- In AT_Sprint@yahoogroups.com
> <mailto:AT_Sprint%40yahoogroups.com>, "William" <will.hermann@> wrote:

> > > > > >
> > > > > > Not sure if this is a duplicate post but can anyone tell me
> how I can
> > > > > > buy one of the MTR kits?
> > > > > > >
> > > > > > > Thanks
> > > > > > > Will
> > > > > > > KT5W
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11262. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-26 14:36:24 UTC
From: n1rx
Topic: 11246 Message: 11262

Way too much drama over this topic.

1. Steve is not "in hiding". He's living his life as he wishes.
2. Steve has already said he will be ordering and selling cases for those with a "naked" MTR.
3. When Steve is ready to sell more radio kits, he will. Since the MTR is so popular, I expect there will be another run.
4. Stay tuned.

My opinions only.
73
Bruce
N1RX

11263. Re: [AT_Sprint] Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-26 15:05:48 UTC
From: Rich
Topic: 11246 Message: 11263

Isn't Steve hiking the Appalachian Trail this summer as usual? Wasn't that well discussed? Hiding? If so, might be for a better signal to noise ratio. <Grin>.

Rich
NU6T

On 5/26/2013 6:22 AM, Gilbert Gibbs wrote:
>
> Bob, Kevin;
>
> Getting Steve to round up another 150 or more kits, along with the
> contracted-out case for the MTR, is a little like asking someone to
> forget their private lives and go to a psych ward for six months to a
> year! However, if he got barnstormed with a 200-kit per op "order",
> and the money to fiance everything, he might just come out of hiding
> and do it again. I failed to send in my check "in confidence" long
> before he got the last series out, as did several others, so I'm
> looking at all kinds of metal boxes of the approximate size to enclose
> my one MTR kit.
> Don't feel bad, I thought I had my year all set up for "one item at
> a time" to get too many items done, then Murphy came along, my sister
> told me to think about having my rather small "hobby cabin" centrally
> air conditioned and heated, due to window units that are MIC (Made In
> China), predestined to send to the recycle system after bad
> manufacture and LOUSY construction, and a central system would cost
> only a little more. My gear and every expensive ham radio and hi-fi
> system item would do well with a dehumidified structure for the first
> time ever, I wouldn't fry my brains while I try to make sense out of
> SMT parts as I get "too many" kits in line to assemble.
> One brave soul needs to be bold with Steve, get his attention, then
> urge him along with a solid money order or whatever, and wait a year.
> I'm just now coming out of my nose dive into a tuberculosis "booster
> shot" that I was due for at my age, a lifetime after the last one was
> given out post W.W. II, so I'm going to be making haste on everything
> I look at during the night time. Down here in South Texas, on Mustang
> Island, I have to be prepared to act appropriately to a hurricane
> warning, drive some 90 miles to my house of safety - and set up my rigs!
>
> Good luck to the first one to make the motion for Steve to get
> interested again, since he might be on yet another project.
>
> 73's
> Gil WA5YKK
>

>
> On 5/26/2013 12:49 AM, William wrote:
>>
>> Count me in as well.
>> Will/KT5W
>>
>> --- In AT_Sprint@yahoogroups.com
>> <mailto:AT_Sprint%40yahoogroups.com>, "rarthur22" <rarthur22@...> wrote:
>> >
>> > Hi Kevin,
>> > I am new to this group also. I was so interested in the radio from
>> all of the reviews that I read about it, I got really brave and I
>> actually did contact Steve and asked him if he would be willing to
>> send me the board artwork etc, so I could build one myself. Not
>> surprisingly he was not willing to part with the design. (I wouldn't
>> have either, but I had to ask.) I totally understand and support his
>> decision not to. He must have a tremendous amount of time and work in
>> it.
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>> > Maybe if there is enough interest here he would consider making
>> another run. I would be willing to prepay for the unit if that would
>> help.
>> > Bob/KG6ZDN
>> > --- In AT_Sprint@yahoogroups.com
>> <mailto:AT_Sprint%40yahoogroups.com>, "William" <will.hermann@> wrote:
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>> > > Hmmm Kevin you may be on to something...although the original
>> owner would probably want/deserve some royalties for coming up with
>> the original design.
>> > >
>> > > --- In AT_Sprint@yahoogroups.com
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>> > > >
>> > > > Or, contact the designer, get the file for the PCB layout, and get
>> > > > permission to do your own run of 150 (or 300 or more). You and
>> I can't be
>> > > > the only people who wish we hadn't missed the boat. I'd happily
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>> > > > than the original price.
>> > > >
>> > > > If someone is motivated to do this, Kickstarter would be a way
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>> > > > Kevin / K4KPK
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11264. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-26 15:24:17 UTC
From: jgaffke
Topic: 11246 Message: 11264

Indeed. Also, Steve has said he does not accept orders until he has announced availability here. I assume he shreds checks that arrive early. There are some nice kits up at qrpkits.com, including several KD1JV designs.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@...> wrote:
> Way too much drama over this topic.

11265. Re: [AT_Sprint] How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-27 12:58:40 UTC
From: Kevin Kleinfelter
Topic: 11246 Message: 11265

I haven't noticed any drama. Perhaps those messages were caught by overly agressive spam filters.
If my computer continues to do that I SHALL HOLD HOLD MY BREATH UNTIL I TURN BLUE IN THE FACE! ;-)
Kevin / K4KPK

On Sunday, May 26, 2013, n1rx wrote:

> **
>
>
> Way too much drama over this topic.
> ._____
>
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>
>

11266. At 3b.4 Weather proof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 02:17:52 UTC
From: Johnny Matlock
Topic: 11266 Message: 11266
Attachments: 2 described; binary payloads are missing from this source WARC

Ge all:
Hope you Memorial Day weekend has been good. I finished up my AT 3b.4 this weekend that I got from N0YJ. He was having problems finding the time to build it.
He told me about some small pelican cases, and here is the results of our brainstorming!
It kinda looks like Dale's PFR3 that is weather proof. It was real fun but it was also a pain to make it all fit like I wanted it to.
72
Johnny AC0BQ

11267. RE: [AT_Sprint] At 3b.4 Weather proof [2 Attachments]

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 03:26:17 UTC
From: Dale Putnam
Topic: 11266 Message: 11267

OH.. I LIKE that!! Mighty NICE JOB!! Johnny... You do such good work!
Fitting it in is a chore tho.. yes. But you did it so well!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: jomatlock@...
Date: Mon, 27 May 2013 21:17:52 -0500
Subject: [AT_Sprint] At 3b.4 Weather proof [2 Attachments]

[Attachment(s) from Johnny Matlock included below]

Ge all:Hope you Memorial Day weekend has been good. I finished up my AT 3b.4 this weekend that I got from N0YJ. He was having problems finding the time to build it.He told me about some small pelican cases, and here is the results of our brainstorming!
It kinda looks like Dale's PFR3 that is weather proof. It was real fun but it was also a pain to make it all fit like I wanted it to.72Johnny AC0BQ

11268. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 08:33:58 UTC
From: Paolo Mattiolo
Topic: 11246 Message: 11268

It's really a pity that a such, winner, requested, well developed project is not shared as schematic, pcb layout and firmware to the ham community. For example with a GPL licence similar to those used by opensource software.

73 de in3aqk

--- In AT_Sprint@yahoogroups.com, "William" <will.hermann@...> wrote:
>
> Not sure if this is a duplicate post but can anyone tell me how I can buy one of the MTR kits?
>
> Thanks
> Will
> KT5W
>

11269. Re: At 3b.4 Weather proof

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 10:21:27 UTC
From: Johnny Matlock
Topic: 11266 Message: 11269

Thanks Dale
72
Johnny AC0BQ

On Monday, May 27, 2013, Dale Putnam wrote:

> **
>
>
> OH.. I LIKE that!! Mighty NICE JOB!! Johnny... You do such good work!
> Fitting it in is a chore tho.. yes. But you did it so well!
>
>
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> ----------
> To: AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint@yahoogroups.com');>
> From: jomatlock@... <javascript:_e({}, 'cvml',
> 'jomatlock@...');>
> Date: Mon, 27 May 2013 21:17:52 -0500
> Subject: [AT_Sprint] At 3b.4 Weather proof [2 Attachments]
>
>
> [Attachment(s) <#13ee92c169864bd6_TopText> from Johnny Matlock included
> below] Ge all:
> Hope you Memorial Day weekend has been good. I finished up my AT 3b.4 this
> weekend that I got from N0YJ. He was having problems finding the time to
> build it.
> He told me about some small pelican cases, and here is the results of our
> brainstorming!
> It kinda looks like Dale's PFR3 that is weather proof. It was real fun but
> it was also a pain to make it all fit like I wanted it to.
> 72
> Johnny AC0BQ
>
>
>

>

11270. Re: [AT_Sprint] Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 10:54:48 UTC
From: Colin Tuckley
Topic: 11246 Message: 11270

Quoting Paolo Mattiolo <mattiolo@...>:

> It's really a pity that a such, winner, requested, well developed
> project is not shared as schematic, pcb layout and firmware to the
> ham community. For example with a GPL licence similar to those used
> by opensource software.

It is only the pcb layout that isn't shared, all the rest including
the firmware is in the files section.

Colin G8TMV

11271. Re: [AT_Sprint] Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 11:40:36 UTC
From: Paolo Mattiolo
Topic: 11246 Message: 11271

Thanks Colin, I must see better and carefully the files section.
Paolo In3aqk

On Tue, May 28, 2013 at 12:54 PM, Colin Tuckley <colin@...> wrote:

> Quoting Paolo Mattiolo <mattiolo@...>:
>
> It's really a pity that a such, winner, requested, well developed
>> project is not shared as schematic, pcb layout and firmware to the ham
>> community. For example with a GPL licence similar to those used by
>> opensource software.
>>
>
> It is only the pcb layout that isn't shared, all the rest including the
> firmware is in the files section.
>
> Colin G8TMV
>
>
>

--
Paolo Mattiolo
Software developer

http://www.mattiolopaolo.com
blog: http://in3aqk.blogspot.it/

Profilo LinkedIn <http://it.linkedin.com/pub/paolo-mattiolo/3a/453/990>
Profilo Pinterest <http://pinterest.com/paolomattiolo/>

11272. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 13:14:14 UTC
From: ve3wmb
Topic: 11246 Message: 11272

My advice is to wait until Steve announces yet another run of the MTR, which I am sure that he will do, either in the fall or the spring. Keep in mind that this is not a major production facility, it is one guy doing everything and he likes to have a life too.

If you can't wait then maybe trying finding someone willing to part with their MTR or ATS3B (very similar radio) or look at the Hendricks QRP Weber Tri-Bander or maybe even the PFR3.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> Indeed. Also, Steve has said he does not accept orders until he has announced availability here. I assume he shreds checks that arrive early. There are some nice kits up at qrpkits.com, including several KD1JV designs.
> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, "n1rx" <bruce.beford@> wrote:
> > Way too much drama over this topic.
>

11273. RE: [AT_Sprint] Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 14:07:11 UTC
From: Mike Olbrisch
Topic: 11246 Message: 11273

Really Paolo?

If you think it is such a pity, there is an easy way around that problem.

You can design your own radio. In fact, if you do this you will not be stuck with the design parameters that Steve imposes on his radios. You can make it as many bands, or as heavy as you like.

When you are done with the design work, you can build one, and work out all the bugs.

Once you have the proto-type working perfectly, you can design a case to fit it in. Again, since you are in control, you can make it as big or small as you like.... internal or external battery, internal or external tuner too.

When you get all that done, then you can write the manual to turn it in to a kit.

Once the manual is finished, you will need to get a few friends to build it as a "BETA" test, to be sure you didn't miss anything.

After all this, the last step is to order hundreds of parts, and divide the parts into "KITS" that you can sell to people so they too can have a radio just like yours.

NOW.... when you have done all this... and sold all the kits.... REMEMBER THIS. When someone wants to get a copy of all your work so they can make their own circuit board. Just remember your statement about what a pity it is that they can't have it, then give them a copy or your work as an OPEN SOURCE, something similar to a GPL LICENSE. And be sure to do it with a smile, knowing you are the better man.

I look forward to getting an open source copy of your work. But until them, I am very happy to have one of Steve's ATS-4B radios, whichever way he chooses to share all his hard work.

Thank you Steve.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Paolo Mattiolo
Sent: Tuesday, May 28, 2013 02:34
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: How to purchase an MTR?

It's really a pity that a such, winner, requested, well developed project is not shared as schematic, pcb layout and firmware to the ham community. For example with a GPL licence similar to those used by opensource software.

73 de in3aqk

11274. Re: [AT_Sprint] How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 14:25:47 UTC
From: Alan Dove
Topic: 11246 Message: 11274

Hey, folks:

We're not going to have a flame war on this topic are we? Because that would suck.

Steve designs some nifty radios, and is entitled to sell them on whatever terms he likes. Demand currently outstrips supply for some models. Perhaps that will change at some point, perhaps it won't, but there's one thing we can be absolutely certain of: griping about the situation on this list won't change a damn thing.

--Alan (N3IMU)

--
Alan Dove, Ph.D.
Web: alandove.com
Phone: 917.273.0544
Skype: alandove
Twitter: @alandove

11275. Re: [AT_Sprint] How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 15:38:42 UTC
From: Gilbert Gibbs
Topic: 11246 Message: 11275

Alan;

Actually, I don't see this shaping up as a flame war, it's more like "advice to the originator of an invention or copyright", and I've seen the results of such a need, to prevent invasion of legal rights and original work.
The most blatant example I keep in mind are the pictures of my own "home city" that my Dad made from a small airplane, around 1937. He was a pioneer on ariel photography here, learning to imitate the best professional photographers of his era, then went so far as to have picture postcards made of them. His one mistake was in assuming that most people are as honest as can be, while the truth is that even, and especially the rich, have larceny in their veins, a thief's outlook on life, and all the consideration of an alligator about the rights of others and their inventions/productions.
Within a month of Dad's postcards being set up for sale, a whole FOUR cents each, the local city mayor took one, noted "no copyright statement", then had them reproduced by the hundreds! That man got THREE cents each for the postcards, so naturally my Dad lost out. All he did was to remove them from the few stores that existed here at the time, put them into a storage bin, and locked them up.

Years passed, I found the leftover copies, and asked what they were about, so my Mom told me the full story. Dad was so furious about that theft that he never did any publications again, "It got in the way of his fishing", thus the pictures remain in the storage vault. Once every several years, someone will mention "having bought a picture by Frank Gibbs of Port Aransas, it was on eBay, and it's valuable, it went for $20!". I just grin at them, tell them "It's a fake, the old man who bought and plagiarized them just caused harm to the whole idea, since my Dad never signed his work, or put a copyright mark on it". Some remarks are terse and ugly, "The picture was still made by Gibbs, so it's genuine", then I sink them by quoting the law, "If the originator has been violated, with the thief having noted the lack of legal identification, then the work is NOT legal and the thief can be held accountable for the theft".
That statement of mine, having been put in the public domain (the Internet), thus made the illegally copied pictures worthless, and some "investment buyers" were disgusted, they had made extra precautions to keep such valuable postcards in safe places!
Over the years, Dad did make the remark that "the mayor was dumb, all he had to do was bring a lawyer to a visit here, have a legal contract written up, then with costs and profits divided up properly, both of us could have made money, and the pictures would legally be very valuable".
The old man made many enemies by stealing from my Dad, with local people

avoiding him like the plague!

Many decades ago, I did find out that a bar on the waterfront here had been "graced with the fine sand dune picture of Frank Gibbs", so as I left, I made a nice hit on the wildlife in the picture with part of a cheeseburger. Dad thought I had done a nice touch, since he never went into "public places where the liars and thieves, gamblers and others" wasted their time, he stayed home and carved out art forms from wood pieces that floated in from Mexico.
The whole sham was "blown to the wind" by Hurricane Celia, when it hit in 1970, and I grinned at the idea of another thief losing an item that he stole!

I have pictures that I managed to capture, of the actual eye of Hurricane Celia, "at the risk of my life", and I have given them away to teachers, researchers, many other officials who do figure out what they're about. My story of that storm and surviving it is in "the public domain", for pubic education, thus I never lose any money on my work. I do plan to rewrite the story, then have the pictures enlarged and clarified, before my last day on this earth, so that my sister and other relatives can copyright them, perhaps make some cash out of my work. Not many people can make honest statements of "Here is what the center of the eye of a hurricane looks like", so my experience is an attention getter.
What did I learn from that experience besides the fact that hurricane winds can kill? A lot, but especially that radio antennas can be set up that can withstand the hard brutality of such hard winds, and how to build them. All it takes is a little ingenuity and a lot of hard work.

Thus, we can thank Steve for his incredible contribution to the art of our hobby, forming out a transceiver that can be used on the CW portions of the bands, all in a pocket sized rig, which is pure genius and fulfills the one nearly science-fiction idea of "a rig that can do anything, yet is so small that it fits in a shirt pocket, the largest part is the antenna!".

Beware, all of you, to make certain that, if you figure out an item or take a picture that is quite attractive, go straight to a lawyer and have your copyright rights written out! The effort and money you expend can be recovered from others who will buy the item, and you don't lose anything.... at least not legally!
Before I forget, too, do yourselves a favor and keep your cars locked up, mine has been invaded twice, once when it was mint new, it got damaged by a hothead kid who was jealous of me, now I think he's in prison on another charge. Not long ago, a burglar opened my driver's door, looted the center console, stole a small pistol - so I turned that in to the cops, the goon is back in prison, and I learned that no one can trust anyone with a small pistol, he tried to sell it on the street, two blocks away! Same idea for your mobile ham rig, the thieves can get all of $20 for "recycled metal radio parts", when the rig they stole is

worth THOUSANDS!

Thanks for the bandwidth, I tried to be worth the read.

73's
Gil WA5YKK (many ATS rigs, one MTR rig!)

On 5/28/2013 9:25 AM, Alan Dove wrote:
>
> Hey, folks:
>
> We're not going to have a flame war on this topic are we? Because that
> would suck.
>
> Steve designs some nifty radios, and is entitled to sell them on
> whatever terms he likes. Demand currently outstrips supply for some
> models. Perhaps that will change at some point, perhaps it won't, but
> there's one thing we can be absolutely certain of: griping about the
> situation on this list won't change a damn thing.
>
> --Alan (N3IMU)
>
> --
> Alan Dove, Ph.D.
> Web: alandove.com
> Phone: 917.273.0544
> Skype: alandove
> Twitter: @alandove
>

11276. Re: [AT_Sprint] How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 16:46:01 UTC
From: Gil G.
Topic: 11246 Message: 11276

It's a pity someone isn't doing my work for me for free so I could go camping..

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On May 28, 2013, at 4:33 AM, Paolo Mattiolo wrote:

> It's really a pity that a such, winner, requested, well developed project is not shared as schematic, pcb layout and firmware to the ham community. For example with a GPL licence similar to those used by opensource software.

11277. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 17:35:08 UTC
From: jgaffke
Topic: 11246 Message: 11277

It's a hobby for Steve, and he's passionate about making them right. He has handed other designs like this over to qrpkits, perhaps he could be lobbied to do the same with the MTR. But it would be extremely bad form to clone and sell his kits without permission.
Any ideas on parts that would be good for a new design? I'd consider the Si514 for the VFO. What digital modes could a TI Tiva support? There's plenty of new mixers and audio amps to choose from.
Jerry, KE7ER

11278. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-29 08:34:39 UTC
From: Paolo Mattiolo
Topic: 11246 Message: 11278

Hello Mike,

unfortunately English is not my mother language and my words was surely misunderstood by some.

I think that the work done by Steve is great.

At the moment I feel not welcome on this group.
I do not intend to replay to your script.
I immediately remove my subscription to this group to avoid such flames.

73 de In3aqk, hoping that ham and qrp spirit survive!!

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> Really Paolo?
>
> If you think it is such a pity, there is an easy way around that problem.
>
> You can design your own radio. In fact, if you do this you will not be
> stuck with the design parameters that Steve imposes on his radios. You can
> make it as many bands, or as heavy as you like.
>
> When you are done with the design work, you can build one, and work out all
> the bugs.
>
> Once you have the proto-type working perfectly, you can design a case to fit
> it in. Again, since you are in control, you can make it as big or small as
> you like.... internal or external battery, internal or external tuner too.
>
> When you get all that done, then you can write the manual to turn it in to a
> kit.
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> Once the manual is finished, you will need to get a few friends to build it
> as a "BETA" test, to be sure you didn't miss anything.
>
> After all this, the last step is to order hundreds of parts, and divide the
> parts into "KITS" that you can sell to people so they too can have a radio
> just like yours.
>
> NOW.... when you have done all this... and sold all the kits.... REMEMBER
> THIS. When someone wants to get a copy of all your work so they can make
> their own circuit board. Just remember your statement about what a pity it
> is that they can't have it, then give them a copy or your work as an OPEN
> SOURCE, something similar to a GPL LICENSE. And be sure to do it with a
> smile, knowing you are the better man.

>
> I look forward to getting an open source copy of your work. But until them,
> I am very happy to have one of Steve's ATS-4B radios, whichever way he
> chooses to share all his hard work.
>
> Thank you Steve.
>
> Mike - KD9KC.
>
> -----Original Message-----
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@...m] On Behalf
> Of Paolo Mattiolo
> Sent: Tuesday, May 28, 2013 02:34
> To: AT_Sprint@yahoogroups.com
> Subject: [AT_Sprint] Re: How to purchase an MTR?
>
> It's really a pity that a such, winner, requested, well developed project is
> not shared as schematic, pcb layout and firmware to the ham community. For
> example with a GPL licence similar to those used by opensource software.
>
> 73 de in3aqk
>

11279. Re: [AT_Sprint] Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-28 19:52:46 UTC
From: Kevin Kleinfelter
Topic: 11246 Message: 11279

Whether you call it a shame or an opportunity is a matter of perspective. "It's a shame" is a phrase which means different things to different people. To some, it genuinely denotes something shameful/immoral. To others, it means something similar to, "It's too bad."

As in, "It's too bad there aren't more of these available. There's a bunch more people who would really like to get one." Or, "It's a shame nobody else sells something comparable. I'd buy one in a heartbeat." Or, "What an opportunity. There's a market here."

For some owners, the exclusivity of the product is part of its appeal. That's inherently in conflict with the desires of those who don't own one but would like to. Some of the don't-haves might be able to design something similar. For some of us, the things that would have to be sacrificed in order to acquire those skills are too high a price for a new radio, so we'll do without.

It's a cool design. If I'd learned about it before the day it became available, I might have bought one, but I needed more time to understand what made it unique than the time available before it sold out. In my case, it is probably good that I can't buy one. With time for a little reflection, I can remember that I don't actually need one of each cool radio. I can admire the design without owning it.
Kevin / K4KPK

11280. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-29 10:25:34 UTC
From: Paolo Mattiolo
Topic: 11246 Message: 11280

Mike,

I only add this before leaving this group.

My proposal to release the work of Steve as GPL was a simple idea to protect it!!.

The GPL licence permits to copy a work but deny the possibility to derive from the original work a businesses.

So if my work is under the GPL licence all the derived work must be under the same licence.

If the schematics and the firmware that I can download from these site are protected with a GPL like licence, all the derived work as , for example a PCB, are also and must be under the GPL licence.

See the example of arduino...

So.... 73 to all, and SK for me on this valuable group.

Excuse also for my pooor english...

--- In AT_Sprint@yahoogroups.com, "Paolo Mattiolo" <mattiolo@...> wrote:
>
> Hello Mike,
>
> unfortunately English is not my mother language and my words was surely misunderstood by some.
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>
> I think that the work done by Steve is great.
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> At the moment I feel not welcome on this group.
> I do not intend to replay to your script.
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> 73 de In3aqk, hoping that ham and qrp spirit survive!!
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> --- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@> wrote:
> >
> > Really Paolo?
> >
> > If you think it is such a pity, there is an easy way around that problem.
> >
> > You can design your own radio. In fact, if you do this you will not be
> > stuck with the design parameters that Steve imposes on his radios. You can
> > make it as many bands, or as heavy as you like.

> >
> > When you are done with the design work, you can build one, and work out all
> > the bugs.
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> > Once you have the proto-type working perfectly, you can design a case to fit
> > it in. Again, since you are in control, you can make it as big or small as
> > you like.... internal or external battery, internal or external tuner too.
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> > When you get all that done, then you can write the manual to turn it in to a
> > kit.
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> > Once the manual is finished, you will need to get a few friends to build it
> > as a "BETA" test, to be sure you didn't miss anything.
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> > After all this, the last step is to order hundreds of parts, and divide the
> > parts into "KITS" that you can sell to people so they too can have a radio
> > just like yours.
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> > NOW.... when you have done all this... and sold all the kits.... REMEMBER
> > THIS. When someone wants to get a copy of all your work so they can make
> > their own circuit board. Just remember your statement about what a pity it
> > is that they can't have it, then give them a copy or your work as an OPEN
> > SOURCE, something similar to a GPL LICENSE. And be sure to do it with a
> > smile, knowing you are the better man.
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> > I look forward to getting an open source copy of your work. But until them,
> > I am very happy to have one of Steve's ATS-4B radios, whichever way he
> > chooses to share all his hard work.
> >
> > Thank you Steve.
> >
> > Mike - KD9KC.
> >
> > -----Original Message-----
> > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> > Of Paolo Mattiolo
> > Sent: Tuesday, May 28, 2013 02:34
> > To: AT_Sprint@yahoogroups.com
> > Subject: [AT_Sprint] Re: How to purchase an MTR?
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> > 73 de in3aqk
> >
>

11281. Re: [AT_Sprint] Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-29 11:49:06 UTC
From: Mike
Topic: 11246 Message: 11281

Paolo,
I wouldn't leave the group. You have a valid point regarding putting the kit under GPL. Let's face it Linus Torvalds http://en.wikipedia.org/wiki/Linus_Torvalds, Mark Spencer of Asterisk and many many more people have given the world, not just a tiny little group such as this, open source Linux, Asterisk, Open APRS ect ect. The way they get compensated is through advertising, commercial sales etc. They can enlist smart guys like KD9KC to help with the project to improve it's design and to do the beta testing before the next stable release. It also ensures their legacy and makes the project they offer through open source bigger than the sum of its parts. Steve would do quite well to go open source. He would most likely make a lot more money, and have a free staff of engineers from around the world eager to assist with the product evolution.

Mike
N1MB

On 5/29/2013 5:25 AM, Paolo Mattiolo wrote:
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> Mike,
>
> I only add this before leaving this group.
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> My proposal to release the work of Steve as GPL was a simple idea to
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> See the example of arduino...
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> > > Thank you Steve.
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> > > Mike - KD9KC.
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> <mailto:AT_Sprint%40yahoogroups.com>] On Behalf
> > > Of Paolo Mattiolo
> > > Sent: Tuesday, May 28, 2013 02:34
> > > To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>
> > > Subject: [AT_Sprint] Re: How to purchase an MTR?
> > >
> > > It's really a pity that a such, winner, requested, well developed
> project is
> > > not shared as schematic, pcb layout and firmware to the ham
> community. For
> > > example with a GPL licence similar to those used by opensource
> software.
> > >
> > > 73 de in3aqk
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>

11282. RE: [AT_Sprint] Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-29 13:55:44 UTC
From: Mike Olbrisch
Topic: 11246 Message: 11282

You are right Kevin. If I could afford every radio I think would be cool to own I would be broke, and I would need a second house just to store them in.

Let's not even get into collecting cool guns! <grin>.

I got the ATS-4B with one summit in mind. This summit is a 10-pointer in my local area. There is just no way I would attempt it with my usual backpack. In fact, I may do it in two stages, the first stage being a scouting probe where I place some water under some rocks half-way up in prep for the main assault. Right now my ATS-4b kit with a 40-30-20-17-15m antenna is under 2 pounds complete. My standard system is about 8 pounds.

A hike like this will require at least 8 pounds (1 gallon) of water - there is no water at that elevation in the desert, not even a small seep like further south in the Franklins. The summit is too steep and rugged for an overnight stay, and the logistics of an extended stay would increase the pack weight considerably. It will need to be a high-speed and low-drag operation.

Steve puts a ton of effort into his radios. I have done work like that in other areas, and until you have done it you just can't understand all the work it takes to get everything right. I am certainly as frugal as the next ham, always looking for the best deal. But to say that it is a shame that Steve doesn't give his work away for free? That just isn't right. As it is, I don't believe he really turns much of a profit. But he did the work, and he has the right to sell or release his work as he likes.

I am sorry Paolo feels stepped on. But if he tried doing something like this himself, maybe he wouldn't feel it was so shameful that Steve doesn't release his work into the public domain. That was the point of my reply to him.

The MTR seems to be very popular. I am thinking steve will probably do another run. If he ever does another run of the ATS-4, I think I want two more. Then I can build one with each of the grand-kids and get them started. It will be a slow project, but that seems like a good way for grand-pa to spend time with the grand-kids AND get then started in radio.

Mike - KD9KC.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Kevin Kleinfelter
Sent: Tuesday, May 28, 2013 13:53
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: How to purchase an MTR?

Whether you call it a shame or an opportunity is a matter of perspective. "It's a shame" is a phrase which means different things to different people. To some, it genuinely denotes something shameful/immoral. To others, it means something similar to, "It's too bad."

As in, "It's too bad there aren't more of these available. There's a bunch more people who would really like to get one." Or, "It's a shame nobody else sells something comparable. I'd buy one in a heartbeat." Or, "What an opportunity. There's a market here."

For some owners, the exclusivity of the product is part of its appeal. That's inherently in conflict with the desires of those who don't own one but would like to. Some of the don't-haves might be able to design something similar. For some of us, the things that would have to be sacrificed in order to acquire those skills are too high a price for a new radio, so we'll do without.

It's a cool design. If I'd learned about it before the day it became available, I might have bought one, but I needed more time to understand what made it unique than the time available before it sold out. In my case, it is probably good that I can't buy one. With time for a little reflection, I can remember that I don't actually need one of each cool radio. I can admire the design without owning it.
Kevin / K4KPK

11283. Re: [AT_Sprint] Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-29 14:29:07 UTC
From: Joseph Trombino, Jr
Topic: 11246 Message: 11283

Folks...maybe we need to cut Paolo some slack...he admitted that English isn't his first language...there are a great many nuances that just can't be conveyed in a second language unless you are fluent in said language.

Many words just don't fit and a second language user certainly makes a few mistakes in usage.

I've lived over seas for several years and traveled to many places in my work and I can tell you first hand how difficult it is to get by in a second language and how even more difficult it is to write in a second language.

I'm just saying (grin).

Paolo, I hope you stay on this very informative list and don't let English get in your way.

Ciao amici Paolo.

73, Joe W2KJ
I QRP, therefore I am

>
> You are right Kevin. If I could afford every radio I think would be cool to own I would be broke, and I would need a second house just to store them in.
>
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>
> Let's not even get into collecting cool guns! <grin>.
>
>
>
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>
>
>
> Mike - KD9KC.
>
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> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Kevin Kleinfelter
> Sent: Tuesday, May 28, 2013 13:53
> To: AT_Sprint@yahoogroups.com
> Subject: Re: [AT_Sprint] Re: How to purchase an MTR?
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> It's a cool design. If I'd learned about it before the day it became available, I might have bought one, but I needed more time to understand what made it unique than the time available before it sold out. In my case, it is probably good that I can't buy one. With time for a little reflection, I can remember that I don't actually need one of each cool radio. I can admire the design without owning it.
>
> Kevin / K4KPK
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11284. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-29 16:19:16 UTC
From: jgaffke
Topic: 11246 Message: 11284

Nothing wrong with what Paolo said, I hope he sticks around.
And he's right, it would be good to have a rig like this
more easily available. But it's Steve's design, and he'd
be rightly pissed if people cloned it to sell without
permission. Way too much drama.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Joseph Trombino, Jr" <jotrom@...> wrote:
>
>
> Folks...maybe we need to cut Paolo some slack...he admitted that English isn't his first language...there are a great many nuances that just can't be conveyed in a second language unless you are fluent in said language.
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> Many words just don't fit and a second language user certainly makes a few mistakes in usage.
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> I've lived over seas for several years and traveled to many places in my work and I can tell you first hand how difficult it is to get by in a second language and how even more difficult it is to write in a second language.
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> I'm just saying (grin).
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> Paolo, I hope you stay on this very informative list and don't let English get in your way.
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> Ciao amici Paolo.
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> 73, Joe W2KJ
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> > You are right Kevin. If I could afford every radio I think would be cool to own I would be broke, and I would need a second house just to store them in.
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antenna is under 2 pounds complete. My standard system is about 8 pounds.
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> > A hike like this will require at least 8 pounds (1 gallon) of water - there is no water at that elevation in the desert, not even a small seep like further south in the Franklins. The summit is too steep and rugged for an overnight stay, and the logistics of an extended stay would increase the pack weight considerably. It will need to be a high-speed and low-drag operation.
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> > The MTR seems to be very popular. I am thinking steve will probably do another run. If he ever does another run of the ATS-4, I think I want two more. Then I can build one with each of the grand-kids and get them started. It will be a slow project, but that seems like a good way for grand-pa to spend time with the grand-kids AND get then started in radio.
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> >
> > Mike - KD9KC.
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> > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Kevin Kleinfelter
> > Sent: Tuesday, May 28, 2013 13:53
> > To: AT_Sprint@yahoogroups.com
> > Subject: Re: [AT_Sprint] Re: How to purchase an MTR?
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11285. Heathkit Survey

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-29 20:11:04 UTC
From: Alan Dove
Topic: 11285 Message: 11285

Hey, folks:

Slightly off topic, but this is a kit-building list so I figured it would be okay. Apparently yet another group of optimists is trying to re-re-re-start Heathkit. They recently updated their web site with a hidden link to a survey about the company's future:

http://heathkit.com/survey/index.php/278489/lang-en

It's a pretty lengthy survey (took me about 15 minutes or so), and provides lots of opportunities for input. Of course there's no telling if it'll amount to anything, but hope springs eternal.

--Alan (N3IMU)

--
Alan Dove, Ph.D.
Web: alandove.com
Phone: 917.273.0544
Skype: alandove
Twitter: @alandove

11286. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-29 20:18:48 UTC
From: Andrew
Topic: 11246 Message: 11286

Hello, my first posting on here, being a bit new to amateur radio.

I was a little disappointed to miss out when the MTR sale was last on. I had asked about where to start, equipment wise, on the gqrp group at Yahoo just a few days before the sale and had been recommended the Steve Weber designs. I giggled to find his website. Nothing going on there. I asked again and was recommended to try the ATR_Sprint route. By the time I got there it was all over and deliveries were being discussed. As someone else said, even if I had started a couple of weeks earlier I would not have gained enough info about the mtr to have made a decision to buy in time. The qrpkits site also seemed to be dormant, although this may not be the case.

Anyway, I looked through the files section on here, to try to find out the spec of the mtr and was surprised to find the assembly manuals, including list of parts, circuit diagram, setting up instructions and operating instructions. Bargain!

As a learning aid (I am working up to the Full Licence exam on 1 July) I checked out the circuit diagram and worked through the way it operates. Took me a while to figure out several parts of the circuit but then I found, on the qrpkits website, some of Steve W's earlier designs. Some of these earlier designs share parts of the mtr circuit and I found a description of the workings of the circuit.

So, now I have a feel for how the mtr works I really want to design something similar for myself. I don't need to be pushing the weight and size to the minimum and I would prefer to have a display with more info, possibly a two line LCD (I have some left over from another project) and I want to have the ability to change features in the code. This means that I will be driving the rig with a PIC, which I am up to speed with, programmed in assembler.

I really want to thank Steve W for all of his effort in preparing and posting on here, the very complete constructors build manual.

Rans6 2e0uda.

11287. Re: [AT_Sprint] How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-30 02:46:02 UTC
From: Steven Weber
Topic: 11246 Message: 11287

Aren't you guys doing that? My hiking trip is almost over and will go back to work on all the stuff going on soon. As soon as I recover from my vacation that is, hi.
Stveve KD1JV

Sent from my Kindle Fire

From: "Gil G." <gil@...>
Sent: Tue May 28 12:46:01 EDT 2013
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] How to purchase an MTR?

It's a pity someone isn't doing my work for me for free so I could go camping..

Gil.

--

PGP Key: http://keskydee.com/gil.asc

On May 28, 2013, at 4:33 AM, Paolo Mattiolo wrote:

It's really a pity that a such, winner, requested, well developed project is not shared as schematic, pcb layout and firmware to the ham community. For example with a GPL licence similar to those used by opensource software.

11288. Re: [AT_Sprint] How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-30 03:32:54 UTC
From: Gil G.
Topic: 11246 Message: 11288

Hello,

I recently came back from a one week primitive camping trip… Made contact every day with my MTR, 20m at noon and 40m after sundown. My set of eight AA rechargeable cells lasted the whole week! Great radio! It was comforting to have the MTR after my cell phone batteries ran out.. Nothing like hiking the AT, but it made me want more…

Have fun out there on the trail!

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On May 29, 2013, at 10:46 PM, Steven Weber wrote:

> Aren't you guys doing that? My hiking trip is almost over and will go back to work on all the stuff going on soon. As soon as I recover from my vacation that is, hi.
> Stveve KD1JV

11289. New to group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-03 11:01:11 UTC
From: Allen
Topic: 11289 Message: 11289

Hi all

Just joined the group so though would say hello.

Looking for one of these devices to take my SOTA activities to the next level. Currently use a FT817 and whilst this is a great radio the idea of reducing the weight is desirable and the MTR and ATS keep topping the list of desirable devices.

It appears from here it is a case of waiting until the next run of devices are announced. Well that's cool, got time.

So patiently waiting,

Allen
VK3HRA

11290. Re: [AT_Sprint] New to group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-03 13:41:40 UTC
From: Mike
Topic: 11289 Message: 11290

Allen,
Also take a look at the PFR-3. I believe it is pretty much the same as the other two radios (designed by Steve Weber) except it has a built in antenna tuner. I have one and love it. Weighs 15 ounces, super receiver, built in keyer and memories for repeat calling, rit, direct freq entry from paddles, etc. I like the fact that the tuner is an integral part of it so I have my choice of antennas that this rig will conveniently tune for me. Bright yellow in color so you have a hard time losing it in the back country.

Mike
N1MB

On 6/3/2013 6:01 AM, Allen wrote:
>
> Hi all
>
> Just joined the group so though would say hello.
>
> Looking for one of these devices to take my SOTA activities to the next
> level. Currently use a FT817 and whilst this is a great radio the idea
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> So patiently waiting,
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> Allen
> VK3HRA
>
>

11291. Re: [AT_Sprint] New to group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-04 02:46:41 UTC
From: ckwishmeier@...
Topic: 11289 Message: 11291

Allen,

I also have a PFR-3A and it is my favorite field radio. Heck, it is great in the shack running on the 8 AA cells and feeding my home antennas. Built it 2 years ago and it is going as strong as ever. I liked it so much that I sold my Yaesu FT-811. Sure would like to eventually get a MTR though! It would be great with my Buddipole as I have that antenna tuned perfectly on 20, 30 and 40. No need for an antenna tuner.

Keith
WA9S

-----Original Message-----
From: Mike <mike@...>
To: AT_Sprint <AT_Sprint@yahoogroups.com>
Cc: Allen <arharvie@...>
Sent: Mon, Jun 3, 2013 9:41 am
Subject: Re: [AT_Sprint] New to group

Allen,
Also take a look at the PFR-3. I believe it is pretty much the same as the other two radios (designed by Steve Weber) except it has a built in antenna tuner. I have one and love it. Weighs 15 ounces, super receiver, built in keyer and memories for repeat calling, rit, direct freq entry from paddles, etc. I like the fact that the tuner is an integral part of it so I have my choice of antennas that this rig will conveniently tune for me. Bright yellow in color so you have a hard time losing it in the back country.

Mike
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On 6/3/2013 6:01 AM, Allen wrote:

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list of desirable devices.

It appears from here it is a case of waiting until the next run of
devices are announced. Well that's cool, got time.

So patiently waiting,

Allen
VK3HRA

11292. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-05-30 09:28:57 UTC
From: Andrew
Topic: 11246 Message: 11292

Yo Steve,

welcome back.

er.... just looking at the mtr_2 circuit diagram you posted on here, there seems to be an awful lot of positive feedback around U3b. Is there a typo or am I mistaken?

Also, "BSRES" doesn't come from anywhere and "TO_U8_PIN9" doesn't go to anywhere near U8!

"MUTE_PIN20_U8" doesn't go there either, U8 is only a 14 pin part!

Apart from that I think I have it sussed.

Best 73's,

Rans6....

--- In AT_Sprint@yahoogroups.com, Steven Weber <steve.kd1jv@...> wrote:
>
> Aren't you guys doing that? My hiking trip is almost over and will go back to work on all the stuff going on soon. As soon as I recover from my vacation that is, hi.
> Stveve KD1JV
>
> Sent from my Kindle Fire
>
>

11293. Re: [AT_Sprint] New to group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-04 10:37:39 UTC
From: Allen
Topic: 11289 Message: 11293

HI

Yes the PFR-3A is on the list. Actually it was this device that lead me here. I've got time and really like the compactness of a MTR / ATS and happy to carry a resonate antenna. Planning a major trip early next year where the weight reduction will be crucial so will see how it goes. Still bumbling my way through CW so waiting and perfecting skills will not be a issue.

Allen
VK3HRA
On 4/06/13 12:46 PM, ckwishmeier@... wrote:
> Allen,
>
> I also have a PFR-3A and it is my favorite field radio. Heck, it is
> great in the shack running on the 8 AA cells and feeding my home
> antennas. Built it 2 years ago and it is going as strong as ever. I
> liked it so much that I sold my Yaesu FT-811. Sure would like to
> eventually get a MTR though! It would be great with my Buddipole as I
> have that antenna tuned perfectly on 20, 30 and 40. No need for an
> antenna tuner.
>
> Keith
> WA9S
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> -----Original Message-----
> From: Mike <mike@...>
> To: AT_Sprint <AT_Sprint@yahoogroups.com>
> Cc: Allen <arharvie@...>
> Sent: Mon, Jun 3, 2013 9:41 am
> Subject: Re: [AT_Sprint] New to group
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> Allen,
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> Hi all
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> So patiently waiting,
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11294. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-04 19:56:38 UTC
From: jgaffke
Topic: 11246 Message: 11294

Steve's not quite back yet...

I think he edits the design within his board routing tool,
then adjusts the schematics to match without any real check.
So there's a number of minor errors in the schematics.

To address your questions:
The LM4808 is at U2 in the board drawings, not U3
The node with R8 ties to pin 6 of U2 (so neg feedback)
"TO_U8_PIN9" ties to "BRES"
"MUTE_PIN20_U8" ties to "MUTE"

There's a few more for you to find. In particular,
message 11071 identifies a mixup on reference designators
in the RX filters.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Andrew" <rans6andrew@...> wrote:
>
> Yo Steve,
>
> welcome back.
>
> er.... just looking at the mtr_2 circuit diagram you posted on here, there seems to be an awful lot of positive feedback around U3b. Is there a typo or am I mistaken?
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> Also, "BSRES" doesn't come from anywhere and "TO_U8_PIN9" doesn't go to anywhere near U8!
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> "MUTE_PIN20_U8" doesn't go there either, U8 is only a 14 pin part!
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> Apart from that I think I have it sussed.
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> Best 73's,
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> Rans6....
>
>
> --- In AT_Sprint@yahoogroups.com, Steven Weber <steve.kd1jv@> wrote:
> >
> > Aren't you guys doing that? My hiking trip is almost over and will go back to work on all the stuff going on soon. As soon as I recover from my vacation that is, hi.
> > Stveve KD1JV
> >
> > Sent from my Kindle Fire
> >

> >
>

11295. Re: How to purchase an MTR?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-05 15:19:41 UTC
From: jgaffke
Topic: 11246 Message: 11295

```
To correct your schematics for the errors Andrew has pointed out:
The LM4808 should be at U2a and U2b, not U3a and U3b
Swap pins +5 and -6 of U2b such that +5 is on the bottom
Where it says "TO_U8_PIN", should say "BRES"
Where it says "MUTE_PIN20_U8", should say "MUTE"

I don't think the U2b pin swap had been noticed before,
and could hang up somebody trying to debug their audio chain.

Jerry, KE7ER
```

11297. NAQCC Sprint Tuesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 16:53:35 UTC
From: NAQCC
Topic: 2905 Message: 11297

NAQCC Sprint Tuesday night!

Our June sprint is coming up next Tuesday evening June 11th local USA time, which as everyone should know converts to Wednesday 0030 to 0230Z. After last month, we're back on schedule with our alternating 2nd Tuesday / 3rd Wednesday schedule in even / odd numbered months. As you know last month we changed weeks because of the Dayton Hamvention. We need to get back on track this month and shoot past the 100 logs mark again.

A lot of hams like to operate portable, and June would be a great month to put in a portable operation in our sprint with the warm weather and very late sunsets here in the eastern USA. It's also a vacation month, and you might like to take an hour or two off from the hectic vacation pace and relax in our sprint. They are relaxing with their laid-back non-frantic activity which we emphasize and encourage. Our goal is for you to participate and not particularly vie for those big scores. Of course if you do prefer scores with your participating, that's perfectly OK, and we have certificates for you if that is what you are after. I think that gives you enough reasons to be there next Tuesday evening.

Our June sprint is this coming Tuesday evening local time (June 11, EDT - 8:30-10:30PM, CDT - 7:30-9:30PM, MDT - 6:30-8:30PM, PDT - 5:30-7:30PM), which translates as Wednesday June 12, 0030Z to 0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201306.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX for 1st, 2nd and 3rd place finishers (New!). A Certificate for top score in the GAIN antenna category.

Prizes: Too many to list!! - check out the prize page on our website.

Oh, and we're adding something this month for those who do emphasize scoring. A certificate to the overall high-scorer who uses a bug, and one to the high scorer using anything other than a straight key or bug. We are doing that to help those who may be physically unable to use a straight key (or bug) for whatever reason. We will be incorporating that info into our rules soon.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you've been hesitant to join in our sprints because you hear other sprints running at breakneck speeds, have no fear. Our sprints are geared to the newcomer to CW and/or contesting. Virtually everyone including the many veteran contesters who regularly enter our sprints will slow down to YOUR speed to help you make your contacts.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6710+ members in: All 50 States - 9 VE Provinces - 94 Countries. Sign up on the NAQCC website today (http://naqcc.info/) and receive a handsome certificate, with your membership number on it, which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

11298. Re: [AT_Sprint] Looking for an ATS-4b enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 18:00:31 UTC
From: Steven Weber
Topic: 11259 Message: 11298

> Does anybody have a Ten-Tec ATS-4b enclosure they'd sell?
>

I still have some spares left, contact me direct.

Steve KD1JV

11299. Back on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 18:12:54 UTC
From: Steven Weber
Topic: 11299 Message: 11299

Hi Gang,

I'm finally back home from my 500 mile hiking trip, a bit slimmer then I was when I left, hi. Had a good walk dispite it being the coldest and 3d wetest spring on record down south.

So, if anyone is still missing parts or needs repair/troubleshooting contact me direct and will fix you up.

For those of you waiting to buy a case for your first run MTR, I'll get going on that soon. I need to order some shipping boxes and figure out how much to charge for postage first.

I'm currently with out transportation, which is a bit of an inconveniance living 10 miles from town. My old Volvo started leaking oil out the crankshaft seal just before I left for the trail and risk blowing it out completely if I drive it. It won't be until the 23d that it can be fixed. In the mean time, I'm working on finding alturnative ways of getting around.

72, Steve KD1JV

11300. Re: Back on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 18:27:09 UTC
From: jgaffke
Topic: 11299 Message: 11300

Welcome back! If you ever get tired of the AT, you should try the Pacific Crest Trail. I for one would be interested in one of those first run MTR cases.
Jerry, KE7ER

11301. RE: [AT_Sprint] Back on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 18:30:23 UTC
From: Dale Putnam
Topic: 11299 Message: 11301

Welcome back, amid all the rush to order stuff, maybe I could squeeze in,
and purchase a pair of processors for the MTR please?
Seems they don't like voltage to the key lines. And I didn't do it this time.

When it gets time to order the boxes and MTR.. I'm waiting patiently, no problem.

Sorry about the seal.. they are a fuss to change too. Not bad if you have all the tools,
tho.

Good luck, and thank you,

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Fri, 7 Jun 2013 14:12:54 -0400
Subject: [AT_Sprint] Back on line

Hi Gang,

I'm finally back home from my 500 mile hiking trip, a bit slimmer then I was

when I left, hi. Had a good walk dispite it being the coldest and 3d wetest

spring on record down south.

So, if anyone is still missing parts or needs repair/troubleshooting contact

me direct and will fix you up.

For those of you waiting to buy a case for your first run MTR, I'll get

going on that soon. I need to order some shipping boxes and figure out how

much to charge for postage first.

I'm currently with out transportation, which is a bit of an inconveniance

living 10 miles from town. My old Volvo started leaking oil out the

crankshaft seal just before I left for the trail and risk blowing it out

completely if I drive it. It won't be until the 23d that it can be fixed. In

the mean time, I'm working on finding alturnative ways of getting around.

72, Steve KD1JV

11302. Re: [AT_Sprint] Back on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 18:31:44 UTC
From: TJ Campie
Topic: 11299 Message: 11302

I know you're not taking orders yet (or making a list for that matter), but
as a gauge of interest, I'll be buying an MTR case when its available!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Jun 7, 2013 at 1:12 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> Hi Gang,
>
> I'm finally back home from my 500 mile hiking trip, a bit slimmer then I
> was
> when I left, hi. Had a good walk dispite it being the coldest and 3d
> wetest
> spring on record down south.
>
> So, if anyone is still missing parts or needs repair/troubleshooting
> contact
> me direct and will fix you up.
>
> For those of you waiting to buy a case for your first run MTR, I'll get
> going on that soon. I need to order some shipping boxes and figure out how
> much to charge for postage first.
>
> I'm currently with out transportation, which is a bit of an inconveniance
> living 10 miles from town. My old Volvo started leaking oil out the
> crankshaft seal just before I left for the trail and risk blowing it out
> completely if I drive it. It won't be until the 23d that it can be fixed.
> In
> the mean time, I'm working on finding alturnative ways of getting around.
>
> 72, Steve KD1JV
>
>
>

11303. Re: Back on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 18:40:08 UTC
From: jgaffke
Topic: 11299 Message: 11303

If blowing the MSP430 IO buffers for the key is a recurring problem,
consider mounting 1K axial resistors through those holes in the board, then wiring the connector to the top of the resistors.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, Dale Putnam wrote:
> ...Seems they don't like voltage to the key lines...

11304. Re: [AT_Sprint] Back on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 19:15:25 UTC
From: James Fehling
Topic: 11299 Message: 11304

Steve, I have a 2nd run mtr that I have been trouble shooting for over a month with no luck, any chance you have time to take a look? Let me know what I have to do? Thanks again Jim n2jfd
On Jun 7, 2013 2:13 PM, "Steven Weber" <steve.kd1jv@...> wrote:

> **
>
>
> Hi Gang,
>
> I'm finally back home from my 500 mile hiking trip, a bit slimmer then I
> was
> when I left, hi. Had a good walk dispite it being the coldest and 3d
> wetest
> spring on record down south.
>
> So, if anyone is still missing parts or needs repair/troubleshooting
> contact
> me direct and will fix you up.
>
> For those of you waiting to buy a case for your first run MTR, I'll get
> going on that soon. I need to order some shipping boxes and figure out how
> much to charge for postage first.
>
> I'm currently with out transportation, which is a bit of an inconveniance
> living 10 miles from town. My old Volvo started leaking oil out the
> crankshaft seal just before I left for the trail and risk blowing it out
> completely if I drive it. It won't be until the 23d that it can be fixed.
> In
> the mean time, I'm working on finding alturnative ways of getting around.
>
> 72, Steve KD1JV
>
>
>

11305. Re: Back on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 19:25:28 UTC
From: ke7ngo11
Topic: 11299 Message: 11305

Welcome back. You should concider Hiking the AZ trail sometime, all kinds of experiances.

I look forward to hearing from you on when we can placeour order. Hope it is soon as i will be away for a few weeks at the end of the month. Would hate to miss out.

--- In AT_Sprint@yahoogroups.com, James Fehling <n2jfdny@...> wrote:
>
> Steve, I have a 2nd run mtr that I have been trouble shooting for over a
> month with no luck, any chance you have time to take a look? Let me know
> what I have to do? Thanks again Jim n2jfd
> On Jun 7, 2013 2:13 PM, "Steven Weber" <steve.kd1jv@...> wrote:
>
> > **
> >
> >
> > Hi Gang,
> >
> > I'm finally back home from my 500 mile hiking trip, a bit slimmer then I
> > was
> > when I left, hi. Had a good walk dispite it being the coldest and 3d
> > wetest
> > spring on record down south.
> >
> > So, if anyone is still missing parts or needs repair/troubleshooting
> > contact
> > me direct and will fix you up.
> >
> > For those of you waiting to buy a case for your first run MTR, I'll get
> > going on that soon. I need to order some shipping boxes and figure out how
> > much to charge for postage first.
> >
> > I'm currently with out transportation, which is a bit of an inconveniance
> > living 10 miles from town. My old Volvo started leaking oil out the
> > crankshaft seal just before I left for the trail and risk blowing it out
> > completely if I drive it. It won't be until the 23d that it can be fixed.
> > In
> > the mean time, I'm working on finding alturnative ways of getting around.
> >
> > 72, Steve KD1JV
> >
> >
> >
>

11306. Re: Back on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 19:31:20 UTC
From: bill_w4zv
Topic: 11299 Message: 11306

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:

>
> For those of you waiting to buy a case for your first run MTR, I'll get
> going on that soon. I need to order some shipping boxes and figure out how
> much to charge for postage first.
>

I'm not going to use my case...$25 shipped.

73, Bill W4ZV

11307. RE: [AT_Sprint] Re: Back on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 19:34:01 UTC
From: Heilman, William Clay
Topic: 11299 Message: 11307

I'll take it.

William "Clayton" Heilman
CA Technologies

Compone Accomoda Supera

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of bill_w4zv
Sent: Friday, June 07, 2013 12:31
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: Back on line

--- In AT_Sprint@yahoogroups.com<mailto:AT_Sprint%40yahoogroups.com>, "Steven Weber" <steve.kd1jv@...<mailto:steve.kd1jv@...>> wrote:

>
> For those of you waiting to buy a case for your first run MTR, I'll get
> going on that soon. I need to order some shipping boxes and figure out how
> much to charge for postage first.
>

I'm not going to use my case...$25 shipped.

73, Bill W4ZV

11308. Re: Back on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-07 19:39:21 UTC
From: bill_w4zv
Topic: 11299 Message: 11308

Wow that was fast but W0EA beat you by 2 minutes! Sorry I don't have two.

73, Bill

--- In AT_Sprint@yahoogroups.com, "Heilman, William Clay" <WilliamClay.Heilman@...> wrote:
>
> I'll take it.
>
>
> William "Clayton" Heilman
> CA Technologies
>
> Compone Accomoda Supera
>
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of
bill_w4zv
> Sent: Friday, June 07, 2013 12:31
> To: AT_Sprint@yahoogroups.com
> Subject: [AT_Sprint] Re: Back on line
>
>
>
> --- In AT_Sprint@yahoogroups.com<mailto:AT_Sprint%40yahoogroups.com>, "Steven Weber"
<steve.kd1jv@<mailto:steve.kd1jv@>> wrote:
>
> >
> > For those of you waiting to buy a case for your first run MTR, I'll get
> > going on that soon. I need to order some shipping boxes and figure out how
> > much to charge for postage first.
> >
>
> I'm not going to use my case...$25 shipped.
>
> 73, Bill W4ZV
>

11309. Re: MTR cases

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-08 16:19:29 UTC
From: n1rx
Topic: 11299 Message: 11309

Steve-
Are you going to make it to Lobstercon this year? If so, bring a few MTR cases with you. I will pick one up from you, and I imagine there will be a few others who may need/want one.
Bruce
N1RX

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
> For those of you waiting to buy a case for your first run MTR, I'll get
> going on that soon. I need to order some shipping boxes and figure out how
> much to charge for postage first.

11310. Re: Back on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-09 22:36:50 UTC
From: k8mdb
Topic: 11299 Message: 11310

10 miles? That should be nothing for an AT throughhiker :)

Welcome back Steve, glad you had a good trip.

73,
Chuck
K8MDB

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Hi Gang,
>
> I'm finally back home from my 500 mile hiking trip, a bit slimmer then I was
> when I left, hi. Had a good walk dispite it being the coldest and 3d wetest
> spring on record down south.
>
> So, if anyone is still missing parts or needs repair/troubleshooting contact
> me direct and will fix you up.
>
> For those of you waiting to buy a case for your first run MTR, I'll get
> going on that soon. I need to order some shipping boxes and figure out how
> much to charge for postage first.
>
> I'm currently with out transportation, which is a bit of an inconveniance
> living 10 miles from town. My old Volvo started leaking oil out the
> crankshaft seal just before I left for the trail and risk blowing it out
> completely if I drive it. It won't be until the 23d that it can be fixed. In
> the mean time, I'm working on finding alturnative ways of getting around.
>
> 72, Steve KD1JV
>

11311. Want to buy ATS-3B or ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-11 05:43:53 UTC
From: w4ien@...
Topic: 11311 Message: 11311

Getting back into QRP again. Would like to buy an ATS-3B or ATS-3B. If anyone has one that they are willing to part with please send me an email off list with price and what is included. Thank you.

Robin
W4IEN

11312. Re: Want to buy ATS-3B or ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-11 15:33:31 UTC
From: w4ien@...
Topic: 11311 Message: 11312

--- In AT_Sprint@yahoogroups.com, w4ien@... wrote:
>
> Getting back into QRP again. Would like to buy an ATS-3B or ATS-3B. If anyone has one that they are willing to part with please send me an email off list with price and what is included. Thank you.
>
> Robin
> W4IEN
>
Meant to say "ATS3B or ATS-4B"...

11313. mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 15:01:23 UTC
From: charles
Topic: 11313 Message: 11313

There is an unbuilt mtr on that famous auction site and the auction closes later today. 73 de chas ai4ot

11314. Re: [AT_Sprint] mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 15:05:33 UTC
From: TJ Campie
Topic: 11313 Message: 11314

Maybe put a link to the auction, or key words to search for... I can't find it.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Jun 12, 2013 at 10:01 AM, charles
<alphaindia4oscartango@...>wrote:

> **
>
>
> There is an unbuilt mtr on that famous auction site and the auction closes
> later today. 73 de chas ai4ot
>
>
>

11315. Re: [AT_Sprint] mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 15:16:33 UTC
From: Michael Harnage
Topic: 11313 Message: 11315

Search for kd1jv found this:

http://www.ebay.com/itm/ham-radio-transceiver-kit-/130924544365?pt=US_Ham_Radio_Transceivers&hash=item1e7bb6016d

>_____
>
>
>Maybe put a link to the auction, or key words to search for... I can't find it.
>
>

11316. Re: [AT_Sprint] mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 15:17:12 UTC
From: Robin Kidd
Topic: 11313 Message: 11316

On 06/12/2013 11:01 AM, charles wrote:
>
> There is an unbuilt mtr on that famous auction site and the auction
> closes later today. 73 de chas ai4ot
>
>
I cannot find it either.

Robin
W4IEN

11317. Re: [AT_Sprint] mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 15:18:42 UTC
From: TJ Campie
Topic: 11313 Message: 11317

sheesh, the guy could have at least put QRP in the title... though he's likely to make a good profit on it now that it has been noticed by this group :P

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Jun 12, 2013 at 10:17 AM, Robin Kidd <w4ien@...> wrote:

> **
>
>
> On 06/12/2013 11:01 AM, charles wrote:
>
>
>
> There is an unbuilt mtr on that famous auction site and the auction closes
> later today. 73 de chas ai4ot
>
> I cannot find it either.
>
> Robin
> W4IEN
>
>
>

11318. Re: [AT_Sprint] mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 15:24:38 UTC
From: Joseph Trombino, Jr
Topic: 11313 Message: 11318

I searched using KD1JV and it popped up..it was called "Amateur radio transceiver kit"...or something like that.

73, Joe W2KJ
I QRP, therefore I am

>
> On 06/12/2013 11:01 AM, charles wrote:
>>
>> There is an unbuilt mtr on that famous auction site and the auction closes later today.
73 de chas ai4ot
>>
> I cannot find it either.
>
> Robin
> W4IEN
>
>

11319. Re: [AT_Sprint] mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 18:03:50 UTC
From: n4wdc@...
Topic: 11313 Message: 11319

All,
Maybe it's just me, but I wouldn't sell it for any more than I paid for it.
If anyone should be making a profit, it should be Steve!
I'm sure one could look back on the list archives and find the one guy that just missed the window to purchase one.
I do remember someone wanting to buy one but had to take his wife to work!
These are my thoughts only.
I'm looking forward to building mine soon. Can you say furlough?
David, N4WDC

On Wed 06/12/13 11:24 , "Joseph Trombino, Jr" jotrom@... sent:
>
> I searched using KD1JV and it popped up..it was called "Amateur radio
> transceiver kit"...or something like that.
> 73, Joe W2KJ
> I QRP, therefore I am
>
> >
> > On 06/12/2013 11:01 AM, charles
> wrote:>>
> >> There is an unbuilt mtr on that famous
> auction site and the auction closes later today. 73 de chas
> ai4ot>>
> > I cannot find it either.
> >
> > Robin
> > W4IEN
> >
> >
>
>
>
> ----------
>
> Yahoo! Groups Links
>
> To visit your group on the web, go to:
> http://groups.yahoo.com/group/AT_Sprint/
> Your email settings:
> Individual Email | Traditional
>
> To change settings online go to:
> http://groups.yahoo.com/group/AT_Sprint/join(Yahoo! ID required)
>
> To change settings via email:

> AT_Sprint-digest@yahoogroups.com AT_Sprint-fullfeatured@yahoogroups.com
> To unsubscribe from this group, send an email to:
> AT_Sprint-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to:
> http://docs.yahoo.com/info/terms/
>
>
>

11320. Re: mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 19:37:19 UTC
From: russellhulett
Topic: 11313 Message: 11320

Hello Dave,

I agree with you. Several times have sold unbuilt kits because of no time to build, all went for less than my cost even if they were in demand and no longer available. This is a hobby for me, not a business.

To each his own, but seems rather small to profit in this particular situation, as many folks who wanted to buy one just missed the window. Unfortunately, some percentage of the buyers of Steve's products are likey speculators.

Scarcity always breeds this behavior in some fraction of humanity.

73, Curt KB5JO

11321. Re: [AT_Sprint] Re: mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 19:52:09 UTC
From: Robin Kidd
Topic: 11313 Message: 11321

On 06/12/2013 03:37 PM, russellhulett wrote:
>
> Hello Dave,
>
> I agree with you. Several times have sold unbuilt kits because of no
> time to build, all went for less than my cost even if they were in
> demand and no longer available. This is a hobby for me, not a business.
>
> To each his own, but seems rather small to profit in this particular
> situation, as many folks who wanted to buy one just missed the window.
> Unfortunately, some percentage of the buyers of Steve's products are
> likey speculators.
>
> Scarcity always breeds this behavior in some fraction of humanity.
>
> 73, Curt KB5JO
>
>
AMEN !!! I really want an MTR but...

72/73,
Robin
W4IEN

11322. Re: mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 20:00:43 UTC
From: Colin
Topic: 11313 Message: 11322

Come on guys, have you not worked out who owns the kit in question? :-)

73, Colin M0CGH

--- In AT_Sprint@yahoogroups.com, "russellhulett" <rhulett1@...> wrote:
>
> Hello Dave,
>
> I agree with you. Several times have sold unbuilt kits because of no time to build, all went for less than my cost even if they were in demand and no longer available. This is a hobby for me, not a business.
>
> To each his own, but seems rather small to profit in this particular situation, as many folks who wanted to buy one just missed the window. Unfortunately, some percentage of the buyers of Steve's products are likey speculators.
>
> Scarcity always breeds this behavior in some fraction of humanity.
>
> 73, Curt KB5JO
>

11323. Re: [AT_Sprint] Re: mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 20:15:40 UTC
From: Mike Crownover
Topic: 11313 Message: 11323

Actually the seller is selling it to the highest bidder, it's not the seller who determines the price, but the bidder. As in any auction, the selling price could have been below what the seller paid for it.
----- Original Message -----

Come on guys, have you not worked out who owns the kit in question? :-)

73, Colin M0CGH

--- In AT_Sprint@yahoogroups.com , "russellhulett" <rhulett1@...> wrote:
>
> Hello Dave,
>
> I agree with you. Several times have sold unbuilt kits because of no time to build, all went for less than my cost even if they were in demand and no longer available. This is a hobby for me, not a business.
>
> To each his own, but seems rather small to profit in this particular situation, as many folks who wanted to buy one just missed the window. Unfortunately, some percentage of the buyers of Steve's products are likey speculators.
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> Scarcity always breeds this behavior in some fraction of humanity.
>
> 73, Curt KB5JO
>

11324. Re: [AT_Sprint] mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 22:26:00 UTC
From: Hank Greeb
Topic: 11313 Message: 11324

Ladies and Gentlemen:

If Ihave a rig, for which I paid $100 for the kit, and $100 donation to a fellow who didn't want $$'s, but I figured that was what he might get as a professional builder for his time,effort,and expertise, why shouldn't I ask $200 or more for a rig?

If I decide that I'm capable of building the kit, and actually get it running and up to specs(which is highly improbable for my ailing eyesight and somewhat shaky extremities) why shouldn't my time be worth what a professional might charge for buildingthe unit?

If someone else wants to put a rig on e-Bay, and see what the "market would bear" - who are we tocondemn such action?

The "holier than thou" comments concerning this sale are "very interesting"to me.

Note - I've seen a HW-9 sell for >$700 on that site, I might get my HW-9, with allthe WARC bands, back into operating condition and see what the traffic might bear? Thetransmitter works, the receiver has very low audio,which I figure is some leaky electrolytic capacitorin the audio system. Any offers? :)

72/73 de n8xx Hg
QRP >99.44% of the time

11325. RE: [AT_Sprint] mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 23:36:46 UTC
From: James Rodenkirch
Topic: 11313 Message: 11325

This thread HAS to move into a political discussion simply because people who denigrate someone for making money off of someone else espouse, most often, the notion that everything has to be leveled to where it's "fair for all." That "notion" someone making HUGE amounts of money - smacks of socialism and, I'll pre-suppose, suggests those "denigrators" vote(d) "blue," live in California, believe taxation is a good thing and, in general, decry any sort of "movement" within our country to curtail or reduce taxation, hold off the rich from getting richer; in short, they can be found nodding their head whenever Boxer or Pelosi or obooma make any statement(s). Most often, they can be found lighting the votive candles they've placed under the picture of Lenin, Stalin or Jesse Jackson.

That's fine!!! However, it does open the door for a rash of "observations," such as N8XX posits below, regarding a "holier than thou" attitude --- that IS what socialism is all about.

I hope the moderator nips this in the bud but NOT before some of us "capitalists thinking sorts," who LOVE the notion of people making money, take the opportunity to expose these "whiners" for what they are -- socialist, liberal oriented individuals! Tha mindset is a piece of our country's political and socio-economic "fabric" ---- just so they know we know who they are!

72, Jim Rodenkirch K9JWV (one who has made some good money off of sales of QRP rigs in the past that he's owned)

To: AT_Sprint@yahoogroups.com
From: n8xx@...
Date: Wed, 12 Jun 2013 18:26:00 -0400
Subject: Re: [AT_Sprint] mtr on popular auction site

Ladies and Gentlemen:

If I have a rig, for which I paid $100 for the
kit, and $100 donation to a fellow who
didn't want $$'s, but I
figured that was what he might get as a professional
builder for his time,
effort, and expertise,
why shouldn't I ask $200 or more
for a rig?

If I decide that I'm capable of
building the kit, and actually get it running
and up to specs (which is highly improbable for my ailing
eyesight and somewhat shaky extremities) why
shouldn't my time be worth what a
professional might charge for building the unit?

If someone else wants to put a rig on e-Bay, and see what
the "market would bear" - who are we to condemn such action?

The "holier than thou" comments concerning
this sale are "very interesting" to me.

Note - I've seen a
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>$700 on that site, I might get my HW-9,
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into operating condition and
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the traffic might bear?
The
transmitter works, the
receiver has very low
audio,
which I figure is
some leaky electrolytic
capacitor in
the audio
system. Any
offers? :)

72/73
de n8xx Hg

QRP >99.44% of the time

11326. Re: [AT_Sprint] Re: mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-12 22:49:18 UTC
From: Kevin Kleinfelter
Topic: 11313 Message: 11326

Well, there are multiple ways of looking at this.

The capitalist way says that when a commodity is scarce, the price rises until demand at that price is satisfied. i.e. The person with the most money gets it.

The meritocratic way says that the item should go to the person with the most talent/skill. e.g. Make up a test and the item goes to the person who scores the highest.

The aristocratic way says that the item goes to a member of a privileged class. e.g. People who are connected.

The elitist variation on aristocracy is that the item can only be possessed by a member of a limited elite. i.e. Only people who purchased an MTR directly are permitted to own one. No sales permitted.

You could allocate the scarce item based on a lottery, etc.

I favor capitalism for allocation of scarce luxury items, such as a ham radio. It is a method which tends to allocate the item to the person who wants it the most. I bid on this kit -- at a price above the original price. I wanted it up to that price. I was out-bid. I didn't want it at the sale price. As someone who wanted it but didn't get it, I'm content with the outcome. I got to choose whether I'd get the radio.

I'd have been less content with a, "$100 to first person to respond," sort of deal, because that's a lottery and I don't get to choose the outcome of a lottery.

Kevin / K4KPK

On Wed, Jun 12, 2013 at 3:37 PM, russellhulett <rhulett1@...> wrote:

> **
>
>
> Hello Dave,
>
> I agree with you. Several times have sold unbuilt kits because of no time
> to build, all went for less than my cost even if they were in demand and no
> longer available. This is a hobby for me, not a business.
>
> To each his own, but seems rather small to profit in this particular
> situation, as many folks who wanted to buy one just missed the window.
> Unfortunately, some percentage of the buyers of Steve's products are likey
> speculators.

>
> Scarcity always breeds this behavior in some fraction of humanity.
>
> 73, Curt KB5JO
>

11327. Re: [AT_Sprint] mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-13 00:46:08 UTC
From: Lee Hiers
Topic: 11313 Message: 11327

On Wed, Jun 12, 2013 at 6:26 PM, Hank Greeb <n8xx@...> wrote:

> If someone else wants to put a rig on e-Bay, and see what the "market
> would bear" - who are we to condemn such action?
>
I agree with that and see nothing wrong with someone who profits in such a transaction - OTOH, I was lucky enough to purchase my ATS3b from AL7FS, who also didn't want to profit from selling the rig, but wanted to pass the opportunity to experience the rig to someone who may have time to build and enjoy it. I can respect either philosophy, and honestly don't know whether I would sell an unbuilt KD1JV kit at a profit. I don't think so, as I think of the QRPers more as a family, but I certainly wouldn't fault someone for doing so. But there are a lot of wheeler-dealers out there...I'm just not one of them.

I was recently at a QRP meeting and was told by one of the members that he'd sold his MTR after being offered a price he "couldn't refuse". I'll have to admit, I would have been awfully tempted as well....it sold for even more than the subject eBay listing.

About 10 years ago, I had a custom guitar made. I had to wait 8 months for it, and the day i brought it home I was offered a 50% profit. By then, the wait for that luthier had grown to two years, and eventually the wait list hit five years. I know of people who purchased these instruments strictly for speculative value who didn't even play...and there were similar cries in that community that these speculators shouldn't profit from these sales, but the luthier should. The luthier kept raising his price until finally he stopped taking advance orders and his new price finally exceeds the market price - at over 3X what I paid.

In both the luthier's and Steve's case, they both choose how to do their business, and that is how it should be.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

11328. Re: [AT_Sprint] mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-13 00:52:09 UTC
From: Steven Weber
Topic: 11313 Message: 11328

As the originator of these kits, let me give you my 2 cents:

Once someone owns the kit, it is thiers to do with as they wish. If they want to resell it via auction, that is thier right too. If someone is willing to pay more then the original selling price, that is also thier right.

However, if someone buys the kit with the sole intention of reselling it at auction to make money on it, that would seem to be a bit unethical. Fortunately, that does not seem to be the case here and the reason he put it on sale was explained in the auction. It was a first run kit, so he has been sitting on it for awhile. BTW, it sold for $185, so those who bought one at the original price got a bargin :)

72, Steve KD1JV

11329. Re: [AT_Sprint] mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-13 01:30:24 UTC
From: Robin Kidd
Topic: 11313 Message: 11329

I guess I am just disappointed that I did not win... ;-)

Robin
W4IEN

Sent from my iPad

On Jun 12, 2013, at 20:52, "Steven Weber" <steve.kd1jv@gmail.com> wrote:

> As the originator of these kits, let me give you my 2 cents:
>
> Once someone owns the kit, it is thiers to do with as they wish. If they want to resell it via auction, that is thier right too. If someone is willing to pay more then the original selling price, that is also thier right.
>
> However, if someone buys the kit with the sole intention of reselling it at auction to make money on it, that would seem to be a bit unethical. Fortunately, that does not seem to be the case here and the reason he put it on sale was explained in the auction. It was a first run kit, so he has been sitting on it for awhile. BTW, it sold for $185, so those who bought one at the original price got a bargin :)
>
> 72, Steve KD1JV
>

11330. Re: [AT_Sprint] Re: mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-13 05:09:57 UTC
From: Mike Olbrisch
Topic: 11313 Message: 11330

Gotta say it Kevin..... you get what so many don't seem to get today. Congrats. For those who want something for nothing.... not to worry. The govt will provide what you need.

Sorry you missed it. But as you say, YOU picked the point at which you lost it.

Vy73 - Mike - KD9KC.
Strahlungen Germany - JO50.
W5-SOTA Association Manager.
NA-SOTA Info: www.na-sota.org/

-------- Original message --------
From: Kevin Kleinfelter <kleinfelter.groups@gmail.com>
Date: 06/13/2013 00:49 (GMT+01:00)
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: mtr on popular auction site

Well, there are multiple ways of looking at this.

The capitalist way says that when a commodity is scarce, the price rises until demand at that price is satisfied. i.e. The person with the most money gets it.

The meritocratic way says that the item should go to the person with the most talent/skill. e.g. Make up a test and the item goes to the person who scores the highest.

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You could allocate the scarce item based on a lottery, etc.

I favor capitalism for allocation of scarce luxury items, such as a ham radio. It is a method which tends to allocate the item to the person who wants it the most. I bid on this kit -- at a price above the original price. I wanted it up to that price. I was out-bid. I didn't want it at the sale price. As someone who wanted it but didn't get it, I'm content with the outcome. I got to choose whether I'd get the radio.

I'd have been less content with a, "$100 to first person to respond," sort of deal, because that's a lottery and I don't get to choose the outcome of a lottery.

Kevin / K4KPK

On Wed, Jun 12, 2013 at 3:37 PM, russellhulett <rhulett1@comcast.net> wrote:

Hello Dave,

I agree with you. Several times have sold unbuilt kits because of no time to build, all went for less than my cost even if they were in demand and no longer available. This is a hobby for me, not a business.

To each his own, but seems rather small to profit in this particular situation, as many folks who wanted to buy one just missed the window. Unfortunately, some percentage of the buyers of Steve's products are likey speculators.

Scarcity always breeds this behavior in some fraction of humanity.

73, Curt KB5JO

11331. Re: mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-13 13:09:15 UTC
From: cloud runner
Topic: 11313 Message: 11331

It is easy to misunderstand what these auctions tell you about value ... the item sells for the price of what two people are willing to pay. Only four people offered to pay more than $130. To sell 250 of them in the two runs, Steve's pricing point was pretty darned good. He also creates a latent demand and a waiting audience to sell off his stock quickly. A commercial-like endeavor would have support and overhead such that actual cost would easily double, and at that higher price point demand would diminish and dry up pretty quickly.

Steve meets a small but insistent demand for highly functional minimalist radios that are challenging to build. I, ... we, ... appreciate what you do with these radios, Steve. I, for one, have carried your radio up 150 mtn peaks so far. In all those SOTA activations, the radio never failed a single time. The typical round trip effort was probably three to four hours which means the radio provided me a LOT of hours of fun.

Keep them things coming, Steve!!

73, Fred - kt5x (aka WS0TA)

11332. MTR, ZM-2, KK5PY micro paddle in a Pelican 1120

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-13 13:31:30 UTC
From: mdweezer
Topic: 11332 Message: 11332

While on the drive home from a business trip - I made a quick stop at "Do it Yourself Electronics" in Needham, MA. Great store if you're ever passing by! Anyway, they carry Pelican cases and I wanted to pick one up for my KX3. After finding the right case, I grabbed the wrong one, paid for it and didn't notice until I got home 3 hours later!

I wanted to put it to use, so now my MTR has a nice hard/weatherproof case!

Here's a photo: http://i.imgur.com/Njmw7T5.jpg

The KK5PY micrp paddle is in the film canister. I'll likely put a few fresh 9V's near the BNC -> RCA adapter and then I'll use the remaining room for wire, and earbuds. And if I ever end up with a nice resonant antenna on 20/40, I could swap out the ZM-2 and put that in its place.

I was pretty happy with how it turned out, though still bummed I got the wrong case for the KX3! Looks like I'll need to just buy it from Amazon...

-Matthew Williams, W2MDW
@W2MDW on Twitter.

11333. A QRP contest challenge comin' up this weekend!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-13 15:08:38 UTC
From: James Rodenkirch
Topic: 11333 Message: 11333

The 2013 Stew Perry Top Band Distance Challenge events will take place on the following dates:

Summer Stew - June 15/16th
Pre-Stew - October 19/20th
Big Stew - December 28/29th

Go here for the rules: http://www.kkn.net/stew/stew.rules.txt

I'm gonna give it a go this coming weekend in the Summer Stew JUST 'cuz I have nuthin' better to do, I won't be home for the Big Stew weekend in Dec and.....I'm punishing myself for EVER even getting the idea I'd enjoy operating QRP on Top Band (actually I LUV operating QRP on Top Band as it is one of the better "challenges" from; a) developing an antenna system that works, b) operating in contests with all the alligators located close by and c) improving one's score for each event and garnering certificates when one can better existing records, whether at the state, district or national level.
Note to self: living in the low band communications "outback," i.e., west of the Mississippi River, means one can't compete with those that live east of the Mississippi River, but one can enter Western Pacific QSOs in their log that those "east coasters" can only dream about!

Hope to hear and work other intrepid QRP souls this weekend on Top Band! 72, Jim Rodenkirch K9JWV

11334. Re: [AT_Sprint] Re: mtr on popular auction site

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-13 15:41:57 UTC
From: ckwishmeier@...
Topic: 11313 Message: 11334

And my PFR-3A and Buddipole and/or wire go with me everywhere, on camping vacation crossing from Indiana to Oregon and back, on many island and state park adventures, QRP contests and from home base. All of that enjoyment within ONE box including 8-AA batteries. My favorite radio in 49 years of hamming. Thanks, Steve.

Keith (Ken)
WA9S

-----Original Message-----
From: cloud runner <just.one.hill@...>
To: AT_Sprint <AT_Sprint@yahoogroups.com>
Sent: Thu, Jun 13, 2013 9:08 am
Subject: [AT_Sprint] Re: mtr on popular auction site

□
It is easy to misunderstand what these auctions tell you about value ...
the item sells for the price of what two people are willing to pay.
Only four people offered to pay more than $130. To sell 250 of them in
the two runs, Steve's pricing point was pretty darned good. He also
creates a latent demand and a waiting audience to sell off his stock
quickly. A commercial-like endeavor would have support and overhead
such that actual cost would easily double, and at that higher price
point demand would diminish and dry up pretty quickly.

Steve meets a small but insistent demand for highly functional minimalist radios that are challenging to build. I, ... we, ... appreciate what you do with these radios, Steve. I, for one, have carried your radio up 150 mtn peaks so far. In all those SOTA activations, the radio never failed a single time. The typical round trip effort was probably three to four hours which means the radio provided me a LOT of hours of fun.

Keep them things coming, Steve!!

73, Fred - kt5x (aka WS0TA)

11335. My latest MTR upgrades

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-13 15:57:21 UTC
From: TJ Campie
Topic: 11335 Message: 11335

I finally got my grubby little hands on one of those nice MTR cases for my 1st Gen MTR and started working on building the perfect minimalist portable rig. I ordered a P3K from CW Touch Keyer http://www.cwtouchkeyer.com/P3W.htm and put the posts for the keyer in the front and right side of the case, reamed out the antenna connector for a BNC and stuck an 9v to the side (temporary).

A picture is in my folder in the picture section.

The next thing is to find a small slide switch I can put on the back case as a power switch, something similar in size to the band switches on the top. If anybody has one handy, let me know. I'll probably leave the power connector in place in case I want to run from a different power source than the 9v. I also found that a Lithium 9v won't fit in a standard 9v battery clip so I'm not quite sure how I'm going to attach the battery to the side. Maybe just some double sided carpet tape, its plenty sticky.

Can't wait to get this rig back on the air.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

11336. 20M QRP EFHW (Zepp) Antenna Matcher Details

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-13 20:22:32 UTC
From: reed2web
Topic: 11336 Message: 11336

This is about construction details for (yet another) 20M antenna matcher. I have uploaded photos, which include schematic and toroid-winding info. This one is a resonant circuit version, not the transformer type.

The design objectives were for it to have low SWR and be very lightweight. For 20M operation the matcher end-feeds an over-tree half-wave wire (34-feet). My 34-foot wire has some taps near the end. The 3.5-foot coax feeder line will function as a counterpoise (in theory). For 40M operation, the matcher will be disconnected from the 3.5-foot coax, and the over-tree antenna will be used as one half of a 40M dipole. The ground side of the coax feeder will be connected to a 33-foot line that will just be run over bushes, but not touching earth.

This concept has been mentioned before on AT_Sprint. That is why I went with it and have provided construction details in the photos.

I might add that I installed a ON-OFF-ON power switch in the MTR. One ON-position is full on. The other ON-position provides current-indication with a LED. The power is dropped through 3.3 ohms (three 10-ohm in parallel). The LED has 100 ohms in series to keep it from getting blown. Although this is not as good as a SWR bridge, it does indicate how much current the transmitter is trying to draw. When in the field, I can tune (if needed) by watching the LED. I find a place where the LED is slightly lighted. This indicates a current that will not fry the output transistors. Note that I have checked the characteristics with a real SWR meter before relying on the above technique, which is primarily for field verification. The info in this paragraph is just for information, not to start any flame wars.

I also use supercapacitors in the MTR to average out the drain on the battery.

The 40/20 scheme seems to work well over a tree in my yard. I plan to give it a try soon in the Colorado wilds.

Hope this post is useful ... Reed K7FLY

11337. Re: 20M QRP EFHW (Zepp) Antenna Matcher Details

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-13 21:04:21 UTC
From: n8xxham
Topic: 11336 Message: 11337

Sorry, I can't find the files to which you've alluded. Are they in the photos section orthe files section of this list?

Please provide a link, if at all possible.

72/73 de n8xx Hg
QRP >99.44% of the time
--- In AT_Sprint@yahoogroups.com, "reed2web" <reed.i.white@...> wrote:
>
> This is about construction details for (yet another) 20M antenna matcher. I have uploaded photos, which include schematic and toroid-winding info. This one is a resonant circuit version, not the transformer type.
>
> The design objectives were for it to have low SWR and be very lightweight. For 20M operation the matcher end-feeds an over-tree half-wave wire (34-feet). My 34-foot wire has some taps near the end. The 3.5-foot coax feeder line will function as a counterpoise (in theory). For 40M operation, the matcher will be disconnected from the 3.5-foot coax, and the over-tree antenna will be used as one half of a 40M dipole. The ground side of the coax feeder will be connected to a 33-foot line that will just be run over bushes, but not touching earth.
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>
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>
> Hope this post is useful ... Reed K7FLY

11338. RE: [AT_Sprint] My latest MTR upgrades

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-14 01:13:18 UTC
From: w4ien@comcast.net
Topic: 11335 Message: 11338

TJ,
Would really like to see picture once you complete your rig setup. Very interesting...

Robin
W4IEN

Original email:

From: TJ Campie tom.campie@...
Date: Thu, 13 Jun 2013 10:57:21 -0500
To: at_sprint@yahoogroups.com
Subject: [AT_Sprint] My latest MTR upgrades

I finally got my grubby little hands on one of those nice MTR cases for my 1st Gen MTR and started working on building the perfect minimalist portable rig. I ordered a P3K from CW Touch Keyer http://www.cwtouchkeyer.com/P3W.htm and put the posts for the keyer in the front and right side of the case, reamed out the antenna connector for a BNC and stuck an 9v to the side (temporary).

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Can't wait to get this rig back on the air.

73, W0EA
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QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
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Because QRO is too easy

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myhosting.com - Premium Microsoft® Windows® and Linux web and application hosting - http://link.myhosting.com/myhosting

11339. Need 2 capacitors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-14 13:23:47 UTC
From: TJ Campie
Topic: 11339 Message: 11339

In building all these MTRs, I've had to steal a couple parts from my personal MTR when I flung a capacitor across the room. Trying to get my MTR back in action, I need a 1uF and .022uF cap (both chips). If anybody has some in their collection, let me know.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

11340. Re: 20M QRP EFHW (Zepp) Antenna Matcher Details

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-14 13:38:02 UTC
From: reed2web
Topic: 11336 Message: 11340

The photos are in the photos section at:

http://groups.yahoo.com/group/AT_Sprint/photos/album/410133312/pic/list

(Sorry I did not mention that in the original post.)

... Reed K7FLY

11341. Re: [AT_Sprint] Re: 20M QRP EFHW (Zepp) Antenna Matcher Details

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-14 14:12:44 UTC
From: Hank Greeb
Topic: 11336 Message: 11341

Thanks! Nice work!

On 6/14/2013 9:38 AM, reed2web wrote:
> The photos are in the photos section at:
>
> http://groups.yahoo.com/group/AT_Sprint/photos/album/410133312/pic/list
>
> (Sorry I did not mention that in the original post.)
>
> ... Reed K7FLY

11342. Re: [AT_Sprint] Need 2 capacitors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-14 15:06:21 UTC
From: Steven Weber
Topic: 11339 Message: 11342

I'll look up your address and send a couple. I still don't have transportation, but I can send them in a letter envelope and put it in my mail box for the letter carrier to pick up and take back to the PO. Hopefuly that will work :)

Steve KD1JV

In building all these MTRs, I've had to steal a couple parts from my personal MTR when I flung a capacitor across the room. Trying to get my MTR back in action, I need a 1uF and .022uF cap (both chips). If anybody has some in their collection, let me know.

73, W0EA
TJ

11343. Re: [AT_Sprint] Re: 20M QRP EFHW (Zepp) Antenna Matcher Details

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-14 15:33:08 UTC
From: Sid Leben
Topic: 11336 Message: 11343

Reed,

Nice adaptation of a coupler.. Can the 3.5' counterpoise run along the coax feed and what sort of swr when not using a tuner ??

Thanks

Sid KC2EE

From: reed2web <reed.i.white@...<mailto:reed.i.white@...>>
Reply-To: "AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>"
<AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>>
Date: Fri, 14 Jun 2013 06:38:02 -0700
To: "AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>"
<AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>>
Subject: [AT_Sprint] Re: 20M QRP EFHW (Zepp) Antenna Matcher Details

The photos are in the photos section at:

http://groups.yahoo.com/group/AT_Sprint/photos/album/410133312/pic/list

(Sorry I did not mention that in the original post.)

... Reed K7FLY

11344. Re: [AT_Sprint] Need 2 capacitors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-14 15:49:48 UTC
From: TJ Campie
Topic: 11339 Message: 11344

That'd work fine Steve, thanks a ton. My address in QRZ is good.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Jun 14, 2013 at 10:06 AM, Steven Weber <steve.kd1jv@...>wrote:

> **
>
>
> **
> I'll look up your address and send a couple. I still don't have
> transportation, but I can send them in a letter envelope and put it in my
> mail box for the letter carrier to pick up and take back to the PO.
> Hopefuly that will work :)
>
> Steve KD1JV
>
>
> In building all these MTRs, I've had to steal a couple parts from my
> personal MTR when I flung a capacitor across the room. Trying to get my
> MTR back in action, I need a 1uF and .022uF cap (both chips). If anybody
> has some in their collection, let me know.
>
> 73, W0EA
> TJ
> ----
>
>
>

11345. Re: [AT_Sprint] Need 2 capacitors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-14 21:18:56 UTC
From: Mike Olbrisch
Topic: 11339 Message: 11345

Steve.

My 1976 JEEP is just blocking the driveway in El Paso. If you want to go get it I won't be needing it for a few more weeks. 《grin》

Vy73 - Mike - KD9KC.
Strahlungen Germany - JO50.
W5-SOTA Association Manager.
NA-SOTA Info: www.na-sota.org/

-------- Original message --------
From: Steven Weber <steve.kd1jv@gmail.com>
Date: 06/14/2013 17:06 (GMT+01:00)
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Need 2 capacitors

I'll look up your address and send a couple. I still don't have transportation, but I can send them in a letter envelope and put it in my mail box for the letter carrier to pick up and take back to the PO. Hopefuly that will work :)

Steve KD1JV

In building all these MTRs, I've had to steal a couple parts from my personal MTR when I flung a capacitor across the room. Trying to get my MTR back in action, I need a 1uF and .022uF cap (both chips). If anybody has some in their collection, let me know.

73, W0EA
TJ

11346. coiling EFHW wire on 20' mast

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-15 03:43:36 UTC
From: Paul Womble
Topic: 11346 Message: 11346

I would like to use a single SD-20 telescoping pole for a 20m EFHW deployment. What will happen if I wrap the antenna wire around the length of the pole insteadof having the wire as an inverted-L, wire totallyvertical, etc? I have both a SOTA tuner from Hendricks and a LNR 10/20/40 trail friendly matchbox to chose fromas the matching device.

Thanks!
Paul K4FB

11347. Re: [AT_Sprint] coiling EFHW wire on 20' mast

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-15 04:06:52 UTC
From: Mike WA8BXN
Topic: 11346 Message: 11347

Hi Paul,

The amount of wire to wrap around the pole would probably not be the same as it would be if it was straight. Why not make a 1/4 wave vertical with one or more radials of a 1/4 wave length. Particularly if you are going to do portable operation you would not have to wind and unwind the pole each time you operate. You would also probably not need any matching device as it would be a resonant antenna with SWR<2:1.
73 - Mike WA8BXN

-------Original Message-------

From: Paul Womble
Date: 6/14/2013 11:44:00 PM
To: at_sprint@yahoogroups.com
Subject: [AT_Sprint] coiling EFHW wire on 20' mast

I would like to use a single SD-20 telescoping pole for a 20m EFHW deployment. What will happen if I wrap the antenna wire around the length of the pole instead of having the wire as an inverted-L, wire totally vertical, etc? I have both a SOTA tuner from Hendricks and a LNR 10/20/40 trail friendly matchbox to chose from as the matching device.

Thanks!
Paul K4FB

11348. Re: [AT_Sprint] coiling EFHW wire on 20' mast

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-15 07:26:12 UTC
From: Colin Tuckley
Topic: 11346 Message: 11348

On 15/06/13 04:43, Paul Womble wrote:
>
>
> I would like to use a single SD-20 telescoping pole for a 20m EFHW
> deployment. W hat will happen if I wrap the antenna wire around the
> length of the pole i nstead of ha ving the wire as an inverted -L, wire
> totally vertical, etc? I have both a SOTA tuner from Hendricks and a
> LNR 10/20/40 trail friendl y matchbox to chose from as the matching device .

It depends what you mean by wrapping the wire around the pole...

If you mean a few well spaced turns to keep the wire close to the pole
rather than having it wave about in the breeze then it won't have any
noticeable effect.

If you mean wrapping the entire length of the wire around the pole then
as the turns are quite close together it will behave as an inductor,
this might have quite a big effect not only on the resonant frequency
but also on the radiation efficiency. Think of it as a giant "Rubber
Duck" antenna of the type found on handie-talkies.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x1B3045CE

11349. Re: coiling EFHW wire on 20' mast

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-15 12:38:53 UTC
From: ve3wmb
Topic: 11346 Message: 11349

Paul :

Wrapping it on the pole will likely affect the matching as technically you will be creating a helically wound antenna and thus adding some inductance.

Why not use the pole to put up the EFHW as a sloping end-fed dipole,
or as an end-fed inverted vee, either of these will work fine ?
BTW as a sloper the antenna will tend to favour signals in the direction of the feedpoint.

Michael VE3WMB

--- In AT_Sprint@yahoogroups.com, Paul Womble <pwomble@...> wrote:
>
> I would like to use a single SD-20 telescoping pole for a 20m EFHW
> deployment. What will happen if I wrap the antenna wire around the
> length of the pole insteadof having the wire as an inverted-L, wire
> totallyvertical, etc? I have both a SOTA tuner from Hendricks and a LNR
> 10/20/40 trail friendly matchbox to chose fromas the matching device.
>
> Thanks!
> Paul K4FB
>

11350. Re: 20M QRP EFHW (Zepp) Antenna Matcher Details

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-15 13:35:56 UTC
From: reed2web
Topic: 11336 Message: 11350

Sid ...

One web-based EFHW white-paper with lots of math, plots, and experiments showed that a counterpoise of 5% of the wavelength was good. Frankly, there's enough stuff connected to the MTR (earbuds and key) that I did not see much difference in SWR with or without a counterpoise. However, I compulsively used a feed-line of 3.5 feet, and put ferrite beads at the MTR end. You can see these in the photo. I'm not sure that the beads are worth the extra weight. My understanding is that they will not do much good if applied to a position where the impedance is high ...

When checking SWR, I was using an impotent 9v battery. Given the low power and range of my SWR/watt meter, the measurement resolution was low. However, the forward needle went up past one watt, and the reverse needle barely budged after final inductance and capacitance were adjusted. So, I would guess the SWR to be less than 1.5:1. I could get some variance by tapping in at 6-inch intervals at the end of the half-wave wire, although the match was realistically good enough without messing with the fine tuning, in my opinion.

When working up the design, I did start with a 4.7K resistor load, etc. However, in practice, the capacitance ended up being about 70% of the original value. I expect the capacitor and/or inductance would be different for a properly-installed antenna. My antenna was a wire tossed over a tree -- as it would be used in the field.

Regards ... Reed K7FLY

--- In AT_Sprint@yahoogroups.com, Sid Leben <sid@...> wrote:
>
> Reed,
> Nice adaptation of a coupler.. Can the 3.5' counterpoise run along the coax feed and what sort of swr when not using a tuner ??
> Thanks
> Sid KC2EE

11351. Re: My latest MTR upgrades

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-15 14:01:01 UTC
From: f4gha
Topic: 11335 Message: 11351

Hi TJ,

The touch keyer is one of the upgrades I want to do. Exactly the same position and nuts than you.
I'm looking also for adding an SWR LED indicator inside the box.
But I think this two modules will not fit inside in same time !
Is there still some place after you have installed the touch keyer ?

Thanks. 73.
Loïc, FY8PE.

11352. Re: [AT_Sprint] Need 2 capacitors

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-15 14:42:45 UTC
From: Steven Weber
Topic: 11339 Message: 11352

Thier in the mail!

That'd work fine Steve, thanks a ton. My address in QRZ is good.

11353. Re: [AT_Sprint] Re: coiling EFHW wire on 20' mast

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-15 17:46:23 UTC
From: Paul Womble
Topic: 11346 Message: 11353

Thanks for the replies all. I was looking for a way to deploy the pole/wire combo in a low profile configuration to use when we go to the beach. A single 20' pole would not be too bad but I don't want to worry about other people hitting wire (antenna or radials) or having to take multiple supports. Our beaches get fairly crowded.

73
Paul K4FB

11354. Re: [AT_Sprint] Re: coiling EFHW wire on 20' mast

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-15 19:53:30 UTC
From: Hank Greeb
Topic: 11346 Message: 11354

Look at the Black Widow Antenna, originally designed by WB3AAL,and
copied by WA3WSJ

Details are at http://wa3wsj.homestead.com/BW.html

I generally use a 31' Jackite Pole to support a vertical wire, and a
tuner for 20/30/40 meters. This is for someone who doesn't want to use
a tuner.

They specify radials, but if you take a small ground steak with you, and
pound it and a wire into the sand, perhaps putting somesalt water around
it for conductivity, you should be able to get a "reasonable" match on
40 and 30 meters. You'll need some sort of steakto support the pole anyway.

72/73 de n8xx Hg
QRP >99.44% of the time

On 6/15/2013 1:46 PM, Paul Womble wrote:
> Thanks for the replies all. I was looking for a way to deploy the pole/wire combo in a
low profile configuration to use when we go to the beach. A single 20' pole would not be
too bad but I don't want to worry about other people hitting wire (antenna or radials) or
having to take multiple supports. Our beaches get fairly crowded.
>
> 73
> Paul K4FB

11355. Re: [AT_Sprint] Re: 20M QRP EFHW (Zepp) Antenna Matcher Details

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-15 20:58:21 UTC
From: Sid Leben
Topic: 11336 Message: 11355

Thanks for the info..
Sid

From: reed2web <reed.i.white@...<mailto:reed.i.white@...>>
Reply-To: "AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>"
<AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>>
Date: Sat, 15 Jun 2013 06:35:56 -0700
To: "AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>"
<AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>>
Subject: [AT_Sprint] Re: 20M QRP EFHW (Zepp) Antenna Matcher Details

Sid ...

One web-based EFHW white-paper with lots of math, plots, and experiments showed that a counterpoise of 5% of the wavelength was good. Frankly, there's enough stuff connected to the MTR (earbuds and key) that I did not see much difference in SWR with or without a counterpoise. However, I compulsively used a feed-line of 3.5 feet, and put ferrite beads at the MTR end. You can see these in the photo. I'm not sure that the beads are worth the extra weight. My understanding is that they will not do much good if applied to a position where the impedance is high ...

When checking SWR, I was using an impotent 9v battery. Given the low power and range of my SWR/watt meter, the measurement resolution was low. However, the forward needle went up past one watt, and the reverse needle barely budged after final inductance and capacitance were adjusted. So, I would guess the SWR to be less than 1.5:1. I could get some variance by tapping in at 6-inch intervals at the end of the half-wave wire, although the match was realistically good enough without messing with the fine tuning, in my opinion.

When working up the design, I did start with a 4.7K resistor load, etc. However, in practice, the capacitance ended up being about 70% of the original value. I expect the capacitor and/or inductance would be different for a properly-installed antenna. My antenna was a wire tossed over a tree -- as it would be used in the field.

Regards ... Reed K7FLY

--- In AT_Sprint@yahoogroups.com<mailto:AT_Sprint%40yahoogroups.com>, Sid Leben <sid@...>
wrote:
>
> Reed,
> Nice adaptation of a coupler.. Can the 3.5' counterpoise run along the coax feed and what sort of swr when not using a tuner ??
> Thanks
> Sid KC2EE

11356. Re: [AT_Sprint] Re: coiling EFHW wire on 20' mast

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-15 20:07:46 UTC
From: Lee Boulineau
Topic: 11346 Message: 11356

I would eat the ground steak. ....

73 de KX4TT Lee

Sent from Yahoo! Mail on Android

11357. Re: coiling EFHW wire on 20' mast

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-16 08:17:41 UTC
From: Yannick
Topic: 11346 Message: 11357

Hi,

When I have to wind some part of an an antenna because it is longer than the pole supporting it, I always try to make some kind of "zig-zag". That means I wind four turns clock-wise, then four turns counter-clock-wise. On 20m I keep at least 1cm between each turns.
That way, the efficiency is not improved but it minimizes the impedance change.
Also ,always try to keep the "lower half" of a GP or the part closer to the feed-point straight because it is were most energy is radiated.

BTW, if you don't have a ruler graduated in both inches and centimeters, a good approximation of 1cm is Pi/8 inch. Hope this help. ^_^

73,
Yan - XV4Y.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

--- In AT_Sprint@yahoogroups.com, Paul Womble <pwomble@...> wrote:
>
> Thanks for the replies all. I was looking for a way to deploy the
> pole/wire combo in a low profile configuration to use when we go to the
> beach. A single 20' pole would not be too bad but I don't want to worry
> about other people hitting wire (antenna or radials) or having to take
> multiple supports. Our beaches get fairly crowded.
>
> 73
> Paul K4FB
>

11358. Re: coiling EFHW wire on 20' mast

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-16 15:37:59 UTC
From: n1rx
Topic: 11346 Message: 11358

So would I. Steak goes on the grill, stakes go in the ground.
8-)
Bruce
N1RX

--- In AT_Sprint@yahoogroups.com, Lee Boulineau <kx4tt@...> wrote:
>
> I would eat the ground steak. ....
>
> 73 de KX4TT Lee
>
> Sent from Yahoo! Mail on Android
>

11359. Re: [AT_Sprint] My latest MTR upgrades

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-20 11:12:29 UTC
From: TJ Campie
Topic: 11335 Message: 11359

I posted an update to my blog which details all the updates: w0ea.blogspot.com

Loic - I'm afraid the touch keyer takes up enough room that it is unlikely that you could fit another board.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Jun 15, 2013, at 9:01 AM, f4gha <comax@hotmail.com> wrote:

> Hi TJ,
>
> The touch keyer is one of the upgrades I want to do. Exactly the same position and nuts than you.
> I'm looking also for adding an SWR LED indicator inside the box.
> But I think this two modules will not fit inside in same time !
> Is there still some place after you have installed the touch keyer ?
>
> Thanks. 73.
> Loïc, FY8PE.
>
>

11360. Re: My latest MTR upgrades

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-20 14:46:21 UTC
From: jgaffke
Topic: 11335 Message: 11360

If room's a problem, you might be able to implement a touch sensor directly on the MSP430 using only the two digital IO cells currently assigned to the keyer plus one resistor: www.ti.com/lit/an/slaa379/slaa379.pdf I wonder how well this would work, it's not a slam dunk. Concerns include: response time of the switch (fast enough for a keyer?), rf noise generated by repeatedly strobing those pins getting into the receiver, and rf from transmitter affecting what the switch sees.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, TJ Campie wrote:
> I posted an update to my blog ... w0ea.blogspot.com

11361. Re: My latest MTR upgrades

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-20 15:08:11 UTC
From: jgaffke
Topic: 11335 Message: 11361

Also, would probably want a pretty much zero length wire from MTR to those touch switches for minimum stray capacitance.
Jerry, KE7ER
--- In AT_Sprint@yahoogroups.com, "jgaffke" wrote:
>might be able to implement a touch sensor directly on the MSP430

11362. Re: [AT_Sprint] Re: My latest MTR upgrades

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-20 15:10:33 UTC
From: TJ Campie
Topic: 11335 Message: 11362

The P3 keyer has built in automatic "calibration" to account for any capacitance present at power on. My wires are about 4 inches long probably before they get to the screws. i.e. if you have your fingers on the key at power on, it won't work.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Thu, Jun 20, 2013 at 10:08 AM, jgaffke <jgaffke@yahoo.com> wrote:

> **
>
>
> Also, would probably want a pretty much zero length wire from MTR to those
> touch switches for minimum stray capacitance.
> Jerry, KE7ER
>
> --- In AT_Sprint@yahoogroups.com, "jgaffke" wrote:
> >might be able to implement a touch sensor directly on the MSP430
>
>
>

11363. Re: My latest MTR upgrades

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-20 16:01:51 UTC
From: jgaffke
Topic: 11335 Message: 11363

As does the method described by TI for the MSP430.
But that would take time to get working, and involve
a significant hack to the MTR's MSP430 code.
Unless there's dozens of units involved, probably
best to stick with the P3 keyer that you found.
Or, unless somebody out there is looking for a hobby.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, TJ Campie wrote:
> The P3 keyer has built in automatic "calibration"

11364. Re: My latest MTR upgrades

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-23 00:59:04 UTC
From: f4gha
Topic: 11335 Message: 11364

Hi TJ and jgaffke,

Thanks for your answers. I have just received my MTR today !
It's very small ! hi. Yes, all will not fit inside at the same time.

TJ you made a great job on your MTR. It's very nice, It inspires me.

Thanks again.
Loïc, FY8PE.

11365. Re: MTR tracking number

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-23 01:04:50 UTC
From: f4gha
Topic: 11225 Message: 11365

Okay !

A "spy" who works at the postal office has unblock my parcel. hi !
After 85 days, I finally received my MTR. Very very happy.

The box is beautiful and so small.
Steven, you made a wonderful job. Beautiful !

Now I have to start my iron solder.
73.
Loïc, FY8PE.

11366. FS by K0EVZ

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-26 12:50:09 UTC
From: Dale Putnam
Topic: 11366 Message: 11366

Doc asked to have this posted, as he is experiencing difficulty with one of the reflectors.

Please contact him directly.

FoxHunt Summer Season coming up soon. Are you ready? This would do it just fine for you. His email is included so offers may go directly to him.

> Gang:
>
> Well, I have decided to sell my excellent and well cared for MFJ9420 transceiver. This is truly a terrific rig, for both fixed and portable use. Although compact in size, it puts out a respectable signal on both CW and SSB. Note that the optional CW module is already installed on this particular rig, and I have made lots of enjoyable QSOes with it.
>
> Price for the complete setup = only $215.00. This includes the rig, the matching Hand Mike, the CW module, *and* shipping to your CONUS address.
>
> I can hardly wait to see who will give this wonderful rig it's next happy new home!

> 73,
> Doc/K0EVZ

11367. FS: Rotary Encoder Wart and case top for ATS-4b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-27 01:15:02 UTC
From: rasteenb
Topic: 11367 Message: 11367

I built and installed Mirsolav's rotary encoder kit
<http://diy4fun.blogspot.com/2010/01/rotary-encoder-for-ats-transceiver.\
html> on my ATS-4b.

It worked very well and even scans, but I have decided to restore my
ATS-4b to its original configuration. (I got more used to the non-knob
tuning after building and using the MTR for a bit.)

My installation was not very elegant as you can see from the photos on
Flickr, <http://www.flickr.com/photos/rasteenb/sets/72157634345640375/>
but it is functional. I'm selling the rotary encoder installed in a
small project box and the modified ATS-4b case top. All you'll need to
do is hook it up using the instructions from Miroslav's site
<http://rapidshare.com/files/338957405/Rotary_encoder_for_ATS_series_tra\
nsceivers.EN.pdf> .

$30.00 complete; I'll pay shipping to US addresses.

Cheers,
Rob
<http://www.blogger.com/profile/00362127481622407591>
<http://www.blogger.com/profile/00362127481622407591>

11368. A few more FOXii

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-27 01:58:07 UTC
From: Dale Putnam
Topic: 11368 Message: 11368

In order to balance the spread of the FOXii, during the summer season,

we are looking for ajust a few more FOXii.. Here's the deal. Go to the webpage, and

find the link to the apps.. fill it out.. send it in.. even if you have never done it before..

the summer season is a great way to gain a bit of experience.. and a whole lot of

fun time... not to mention.. the dreaded butterfly time... but then we all get that..

What say, some of you have been hounds for a long long time.. now's the time to

jump in and be on the other side of the den door.... or is that the other side of the din????
You'll never know.. until you fill out an app.. .. .. ..

Might just as well fill it out.. and .. of course, the committee doesn't have to pick you..

so.. you could just fill one out and be on the standby list.. and that's ok too.

And for the rest of the hounds.. are you really ready????

Have the key contacts polished clean, the antennas all checked over.. and the dust off the earphones? ? ? Really?

We don't do teams for the summer.. just for the winter season.. but daylight is burning..

might be fun to keep your ears open for possible team members ??

More fun.. in 90 minutes.. than you think you can have...

shoot.. I think it is more fun than anything else... with my boots on.. .. .. ..

http://www.qrpfoxhunt.org

Have a great day,

--... ...-- Dale - WC7S in Wy

11369. SOLD - FS: Rotary Encoder Wart and case top for ATS-4b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-27 23:55:59 UTC
From: rasteenb
Topic: 11367 Message: 11369

Sold! Thanks,
Rob

--- In AT_Sprint@yahoogroups.com, "rasteenb" <rasteenb@...> wrote:
>
>
> I built and installed Mirsolav's rotary encoder kit
> <http://diy4fun.blogspot.com/2010/01/rotary-encoder-for-ats-transceiver.\
> html> on my ATS-4b.
>
> It worked very well and even scans, but I have decided to restore my
> ATS-4b to its original configuration. (I got more used to the non-knob
> tuning after building and using the MTR for a bit.)
>
> My installation was not very elegant as you can see from the photos on
> Flickr, <http://www.flickr.com/photos/rasteenb/sets/72157634345640375/>
> but it is functional. I'm selling the rotary encoder installed in a
> small project box and the modified ATS-4b case top. All you'll need to
> do is hook it up using the instructions from Miroslav's site
> <http://rapidshare.com/files/338957405/Rotary_encoder_for_ATS_series_tra\
> nsceivers.EN.pdf> .
>
> $30.00 complete; I'll pay shipping to US addresses.
>
> Cheers,
> Rob
> <http://www.blogger.com/profile/00362127481622407591>
> <http://www.blogger.com/profile/00362127481622407591>
>

11370. Re: SOLD - FS: Rotary Encoder Wart and case top for ATS-4b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-06-28 01:29:04 UTC
From: USYSLINK
Topic: 11367 Message: 11370

Does anybody have the same one for sale? I'd like to buy.

TKX

11371. Re: MTR kit arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-01 02:21:38 UTC
From: John
Topic: 10729 Message: 11371

Have you set a price on the MTR cases for those
of us who have first-run MTRs? I'd like to get
a check to you. Also need a mailing address.

John, KJ6CVB

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Probably more like June. KD1JV
>
> Just to refresh my memory - we're looking at May sometime for the availability of the custom cases for first-run MTRs?
>

11372. MTR cases for 1st run kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-01 19:52:06 UTC
From: Steven Weber
Topic: 11372 Message: 11372

I suppose I had best let you guys start ordering cases, even though I still have a lot of other things going on at the moment to use up my time. Chances are you'll all order one at the same time, so be patient and I'll slowly get them out as I have spare time to do so.

Keep in mind I only have 100 extra cases and there are potentually 150 people who would want one. I'm counting on at least 50 of you being happy with the rig in an Altoids tin or still unbuilt and sitting in a closet, all but forgoten. I hope you all understand I'd rather disappoint some of you if I run out of cases then to end up with too many.

Cases will come with the flat head mounting screws and bumper feet, but not the red LED lens or felt cloth for over the switches, since you should still have those pieces.

For these cases you can use paypal. Here is an order page to make things simple:

http://kd1jv.qrpradio.com/MTR/MTR_CASE_order.htm

If and when I run out of cases, I'll take down the order page so if it you get a 401 error, thier all sold.

72, Steve KD1JV

11373. Re: [AT_Sprint] MTR cases for 1st run kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-01 19:56:41 UTC
From: John Evans
Topic: 11372 Message: 11373

Steve,

I get the following error when attempting to add an item to the cart.

HTTP Status 405 - Request method 'POST' not supported
---

type Status report

message *Request method 'POST' not supported*

description *The specified HTTP method is not allowed for the requested
resource (Request method 'POST' not supported).*

On Mon, Jul 1, 2013 at 1:52 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> I suppose I had best let you guys start ordering cases, even though I
> still
> have a lot of other things going on at the moment to use up my time.
> Chances
> are you'll all order one at the same time, so be patient and I'll slowly
> get
> them out as I have spare time to do so.
>
> Keep in mind I only have 100 extra cases and there are potentually 150
> people who would want one. I'm counting on at least 50 of you being happy
> with the rig in an Altoids tin or still unbuilt and sitting in a closet,
> all
> but forgoten. I hope you all understand I'd rather disappoint some of you
> if
> I run out of cases then to end up with too many.
>
> Cases will come with the flat head mounting screws and bumper feet, but
> not
> the red LED lens or felt cloth for over the switches, since you should
> still
> have those pieces.
>
> For these cases you can use paypal. Here is an order page to make things
> simple:
>
> http://kd1jv.qrpradio.com/MTR/MTR_CASE_order.htm
>
> If and when I run out of cases, I'll take down the order page so if it you

> get a 401 error, thier all sold.
>
> 72, Steve KD1JV
>
>
>

11374. Re: [AT_Sprint] MTR cases for 1st run kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-01 20:01:07 UTC
From: John Evans
Topic: 11372 Message: 11374

re: Errors - it works fine with IE but not Chrome.

On Mon, Jul 1, 2013 at 1:52 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> I suppose I had best let you guys start ordering cases, even though I
> still
> have a lot of other things going on at the moment to use up my time.
> Chances
> are you'll all order one at the same time, so be patient and I'll slowly
> get
> them out as I have spare time to do so.
>
> Keep in mind I only have 100 extra cases and there are potentually 150
> people who would want one. I'm counting on at least 50 of you being happy
> with the rig in an Altoids tin or still unbuilt and sitting in a closet,
> all
> but forgoten. I hope you all understand I'd rather disappoint some of you
> if
> I run out of cases then to end up with too many.
>
> Cases will come with the flat head mounting screws and bumper feet, but
> not
> the red LED lens or felt cloth for over the switches, since you should
> still
> have those pieces.
>
> For these cases you can use paypal. Here is an order page to make things
> simple:
>
> http://kd1jv.qrpradio.com/MTR/MTR_CASE_order.htm
>
> If and when I run out of cases, I'll take down the order page so if it you
> get a 401 error, thier all sold.
>
> 72, Steve KD1JV
>
>
>

11375. RE: [AT_Sprint] MTR cases for 1st run kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-02 02:09:14 UTC
From: Mike Olbrisch
Topic: 11372 Message: 11375

Steve. Did you mention a while back that you still had some cases for the ATS-4B?

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Monday, July 01, 2013 13:52
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] MTR cases for 1st run kits

I suppose I had best let you guys start ordering cases, even though I still have a lot of other things going on at the moment to use up my time. Chances

are you'll all order one at the same time, so be patient and I'll slowly get

them out as I have spare time to do so.

Keep in mind I only have 100 extra cases and there are potentually 150 people who would want one. I'm counting on at least 50 of you being happy with the rig in an Altoids tin or still unbuilt and sitting in a closet, all

but forgoten. I hope you all understand I'd rather disappoint some of you if

I run out of cases then to end up with too many.

Cases will come with the flat head mounting screws and bumper feet, but not the red LED lens or felt cloth for over the switches, since you should still

have those pieces.

For these cases you can use paypal. Here is an order page to make things simple:

http://kd1jv.qrpradio.com/MTR/MTR_CASE_order.htm

If and when I run out of cases, I'll take down the order page so if it you get a 401 error, thier all sold.

72, Steve KD1JV

Yahoo! Groups Links

11376. ATS-4b Tuning peculiar on 40, 20 meters

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-02 03:04:25 UTC
From: rasteenb
Topic: 11376 Message: 11376

I noticed awhile ago that the tuning on 40 meters was 35 Hz +/- 50 Hz.

For example, I can use direct freq entry [DFE] to get the rig to 7.000035 MHz, but not 7.000000 and when I tune it increments as it should, in 50 Hz steps, but to 7.000085, 7.000135, etc.

Similarly, on 20 meters, I can get to 14.000010 MhZ, but not 14.000000.

The remaining bands all zero-out (i.e. 10.000.000, 21.000.000, etc).

Is this on purpose, or did I screw something up?

If I did screw something up, can I fix it, and how?

Thanks,
Rob KA8JBY

11377. Re: [AT_Sprint] MTR cases for 1st run kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-02 10:07:13 UTC
From: w9ya
Topic: 11372 Message: 11377

Same exact problem for me too !!!

vy 72 de bob, w9ya

On Mon, Jul 1, 2013 at 1:56 PM, John Evans <john.evans.n0hj@...>wrote:

> **
>
>
> Steve,
>
> I get the following error when attempting to add an item to the cart.
>
> HTTP Status 405 - Request method 'POST' not supported
> ---
>
> *type* Status report
>
> *message* *Request method 'POST' not supported*
>
> *description* *The specified HTTP method is not allowed for the requested
> resource (Request method 'POST' not supported).*
>
>
> On Mon, Jul 1, 2013 at 1:52 PM, Steven Weber <steve.kd1jv@...>wrote:
>
>> **
>>
>>
>> I suppose I had best let you guys start ordering cases, even though I
>> still
>> have a lot of other things going on at the moment to use up my time.
>> Chances
>> are you'll all order one at the same time, so be patient and I'll slowly
>> get
>> them out as I have spare time to do so.
>>
>> Keep in mind I only have 100 extra cases and there are potentually 150
>> people who would want one. I'm counting on at least 50 of you being happy
>> with the rig in an Altoids tin or still unbuilt and sitting in a closet,
>> all
>> but forgoten. I hope you all understand I'd rather disappoint some of you
>> if
>> I run out of cases then to end up with too many.
>>
>> Cases will come with the flat head mounting screws and bumper feet, but

>> not
>> the red LED lens or felt cloth for over the switches, since you should
>> still
>> have those pieces.
>>
>> For these cases you can use paypal. Here is an order page to make things
>> simple:
>>
>> http://kd1jv.qrpradio.com/MTR/MTR_CASE_order.htm
>>
>> If and when I run out of cases, I'll take down the order page so if it
>> you
>> get a 401 error, thier all sold.
>>
>> 72, Steve KD1JV
>>
>>
>
>

11378. Re: [AT_Sprint] MTR cases for 1st run kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-02 10:17:33 UTC
From: w9ya
Topic: 11372 Message: 11378

A *very* recent version of firefox handled the page correctly when chromium
did not....hmmm.

Anyways the order is in es MNY TNXS OM !

vy 73 de bob, w9ya

On Tue, Jul 2, 2013 at 4:07 AM, w9ya <w9ya@...> wrote:

> Same exact problem for me too !!!
>
> vy 72 de bob, w9ya
>
>
> On Mon, Jul 1, 2013 at 1:56 PM, John Evans <john.evans.n0hj@...>wrote:
>
>> **
>>
>>
>> Steve,
>>
>> I get the following error when attempting to add an item to the cart.
>>
>> HTTP Status 405 - Request method 'POST' not supported
>> ------------------------------
>>
>> *type* Status report
>>
>> *message* *Request method 'POST' not supported*
>>
>> *description* *The specified HTTP method is not allowed for the
>> requested resource (Request method 'POST' not supported).*
>>
>>
>> On Mon, Jul 1, 2013 at 1:52 PM, Steven Weber <steve.kd1jv@...>wrote:
>>
>>> **
>>>
>>>
>>> I suppose I had best let you guys start ordering cases, even though I
>>> still
>>> have a lot of other things going on at the moment to use up my time.
>>> Chances
>>> are you'll all order one at the same time, so be patient and I'll slowly
>>> get
>>> them out as I have spare time to do so.

>>>
>>> Keep in mind I only have 100 extra cases and there are potentually 150
>>> people who would want one. I'm counting on at least 50 of you being
>>> happy
>>> with the rig in an Altoids tin or still unbuilt and sitting in a closet,
>>> all
>>> but forgoten. I hope you all understand I'd rather disappoint some of
>>> you if
>>> I run out of cases then to end up with too many.
>>>
>>> Cases will come with the flat head mounting screws and bumper feet, but
>>> not
>>> the red LED lens or felt cloth for over the switches, since you should
>>> still
>>> have those pieces.
>>>
>>> For these cases you can use paypal. Here is an order page to make things
>>> simple:
>>>
>>> http://kd1jv.qrpradio.com/MTR/MTR_CASE_order.htm
>>>
>>> If and when I run out of cases, I'll take down the order page so if it
>>> you
>>> get a 401 error, thier all sold.
>>>
>>> 72, Steve KD1JV
>>>
>>>
>>
>>
>
>

11379. Re: [AT_Sprint] MTR cases for 1st run kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-02 14:35:28 UTC
From: Paul Womble
Topic: 11372 Message: 11379

Works fine here with Chrome...

Paul K4FB

11380. RE: [AT_Sprint] MTR cases for 1st run kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-02 15:39:00 UTC
From: Dale Putnam
Topic: 11372 Message: 11380

Doesn't work for IE, and that's currently all I have.

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: pwomble@...
Date: Tue, 2 Jul 2013 10:35:28 -0400
Subject: Re: [AT_Sprint] MTR cases for 1st run kits

Works fine here with Chrome...

Paul K4FB

11381. Re: MTR cases for 1st run kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-02 19:38:37 UTC
From: shadle
Topic: 11372 Message: 11381

I used Firefox on my Android phone. No problem. Can't wait to get the case!

73
-john W4PAH
Madison, WI

11382. MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-02 21:47:37 UTC
From: Gabriel Moreno
Topic: 11372 Message: 11382

Hello,

Does anyone know when the next release of kits will be?

Thanks,

Gabriel - N6OSB

Sent from my iPhone

On Jul 2, 2013, at 12:38 PM, "shadle" <shadle@...> wrote:

> I used Firefox on my Android phone. No problem. Can't wait to get the case!
>
> 73
> -john W4PAH
> Madison, WI
>
>

11383. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 17:14:40 UTC
From: Steven Weber
Topic: 11372 Message: 11383

Does anyone know when the next release of kits will be?

Hard tell'en not know'en

I probably shouldn't say anything as this always opens up a can of worms, but I've been giving thought to the next generation of MTR's.

I've been evaluating a TI audio processor chip with miniDSP as a possible replacement for the audio section of the rig. It can perform AGC, band pass filtering, sidetone generation (with level control), electronic volume control and headphone driver (either class AB or class D). The only problem is that the chip is in a 5mm square leadless package which can't be hand soldered to the board, so I'd probably have to pre-mount it.

It seems to work pretty well, but I somehow managed to blow out the audio inputs on the evaluation board (which cost me $100) the other day so I'm kinda dead in the water until I figure out how to replace it or build a stand alone test board.

There is a lot of demand for a full function LCD display. I've found a neat little one which is a lot less fragile then the one used on the ATS-4 which looks suitable.

I'll probably migrate to the MSP430G family of processors which support capacitive touch switch inputs. It would be nice to eliminate the mechanical push buttons and add a touch keyer option.

I'll probably add a third band since the 40-30-20 selection is pretty desirable.

Finally, I might add a boost regulator so that a single li-ion cell can be used to power the rig.

I'm not sure how long all this new development work is going to take, but it will be a while...keep tuned!

Steve KD1JV

11384. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 17:18:15 UTC
From: John Evans
Topic: 11372 Message: 11384

As always, I absolutely love the concept.

72 Steve

John - N0HJ

On Wed, Jul 3, 2013 at 11:14 AM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> **
> Does anyone know when the next release of kits will be?
>
> Hard tell'en not know'en
>
> I probably shouldn't say anything as this always opens up a can of worms,
> but I've been giving thought to the next generation of MTR's.
>
> I've been evaluating a TI audio processor chip with miniDSP as a possible
> replacement for the audio section of the rig. It can perform AGC, band pass
> filtering, sidetone generation (with level control), electronic volume
> control and headphone driver (either class AB or class D). The only problem
> is that the chip is in a 5mm square leadless package which can't be hand
> soldered to the board, so I'd probably have to pre-mount it.
>
> It seems to work pretty well, but I somehow managed to blow out the audio
> inputs on the evaluation board (which cost me $100) the other day so I'm
> kinda dead in the water until I figure out how to replace it or build a
> stand alone test board.
>
> There is a lot of demand for a full function LCD display. I've found a
> neat little one which is a lot less fragile then the one used on the ATS-4
> which looks suitable.
>
> I'll probably migrate to the MSP430G family of processors which
> support capacitive touch switch inputs. It would be nice to eliminate the
> mechanical push buttons and add a touch keyer option.
>
> I'll probably add a third band since the 40-30-20 selection is
> pretty desirable.
>
> Finally, I might add a boost regulator so that a single li-ion cell can be
> used to power the rig.
>
> I'm not sure how long all this new development work is going to take, but

> it will be a while...keep tuned!
>
> Steve KD1JV
>
>
>
>
>

11385. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 17:17:55 UTC
From: TJ Campie
Topic: 11372 Message: 11385

holy cow Steve, if you manage to get a rig going like that... huge winner!
Amazing what you can pack into a tiny box. You're a master of the art!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Jul 3, 2013 at 12:14 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> **
> Does anyone know when the next release of kits will be?
>
> Hard tell'en not know'en
>
> I probably shouldn't say anything as this always opens up a can of worms,
> but I've been giving thought to the next generation of MTR's.
>
> I've been evaluating a TI audio processor chip with miniDSP as a possible
> replacement for the audio section of the rig. It can perform AGC, band pass
> filtering, sidetone generation (with level control), electronic volume
> control and headphone driver (either class AB or class D). The only problem
> is that the chip is in a 5mm square leadless package which can't be hand
> soldered to the board, so I'd probably have to pre-mount it.
>
> It seems to work pretty well, but I somehow managed to blow out the audio
> inputs on the evaluation board (which cost me $100) the other day so I'm
> kinda dead in the water until I figure out how to replace it or build a
> stand alone test board.
>
> There is a lot of demand for a full function LCD display. I've found a
> neat little one which is a lot less fragile then the one used on the ATS-4
> which looks suitable.
>
> I'll probably migrate to the MSP430G family of processors which
> support capacitive touch switch inputs. It would be nice to eliminate the
> mechanical push buttons and add a touch keyer option.
>
> I'll probably add a third band since the 40-30-20 selection is
> pretty desirable.

>
> Finally, I might add a boost regulator so that a single li-ion cell can be
> used to power the rig.
>
> I'm not sure how long all this new development work is going to take, but
> it will be a while...keep tuned!
>
> Steve KD1JV
>
>
>
>
>

11386. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 17:32:07 UTC
From: Gil G.
Topic: 11372 Message: 11386

Awesome!

I am sure this group wouldn't mind participating in development costs…
I would.

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Jul 3, 2013, at 1:14 PM, Steven Weber wrote:

> □
>
> Does anyone know when the next release of kits will be?
>
> Hard tell'en not know'en
>
> I probably shouldn't say anything as this always opens up a can of worms, but I've been giving thought to the next generation of MTR's.

11387. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 17:33:07 UTC
From: TJ Campie
Topic: 11372 Message: 11387

Me too!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Jul 3, 2013 at 12:32 PM, Gil G. <gil@...> wrote:

> **
>
>
> Awesome!
>
> I am sure this group wouldn't mind participating in development costs…
> I would.
>
> Gil.
> --
> PGP Key: http://keskydee.com/gil.asc
>
> On Jul 3, 2013, at 1:14 PM, Steven Weber wrote:
>
>
>
> Does anyone know when the next release of kits will be?
>
> Hard tell'en not know'en
>
> I probably shouldn't say anything as this always opens up a can of worms,
> but I've been giving thought to the next generation of MTR's.
>
>
>

11388. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 17:44:22 UTC
From: george@...
Topic: 11372 Message: 11388

You know that is an interesting idea: a kick-starter concept where members could send in $20 (or some other number) understanding that all this would do is to allow one to the front of the line (& then pay full price for the radio) if & when the product is released.

That would not pay for your R&D time but it could pay for your parts & protoboards.

Steve, what do you think? George WA1PDY

11389. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 17:45:30 UTC
From: James Fehling
Topic: 11372 Message: 11389

thats an awesome idea, i would do it

On Wed, Jul 3, 2013 at 1:44 PM, <george@...> wrote:

> **
>
>
> You know that is an interesting idea: a kick-starter concept where
> members could send in $20 (or some other number) understanding that all
> this would do is to allow one to the front of the line (& then pay full
> price for the radio) if & when the product is released.
>
> That would not pay for your R&D time but it could pay for your parts &
> protoboards.
>
> Steve, what do you think? George WA1PDY
>
>

--
James Fehling Jr
N2JFD
Vice President
Suffolk County Radio Club
Education and Testing Coordinator, VE Liaison
SkyWarn Spotter 10-183, 10-10 #76060, NAQCC #6021
www.suffolkcountyradioclub.org

11390. Fwd: Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 17:47:21 UTC
From: Hank Greeb
Topic: 11372 Message: 11390

Wow, with all those ideas, the next MTR might be in competition with the Elecraft K3/KX3 for features! And, all in a box not much bigger than an Altoids Tin!

Keep up the great work, great generation and implementation of ideas, Steve!

72/73 de n8xx Hg
QRP >99.44% of the time

-------- Original Message --------
Subject: Re: [AT_Sprint] MTR Radio
Date: Wed, 3 Jul 2013 13:14:40 -0400
From: Steven Weber <steve.kd1jv@...>
Reply-To: AT_Sprint@yahoogroups.com
To: <AT_Sprint@yahoogroups.com>

Does anyone know when the next release of kits will be?
Hard tell'en not know'en
I probably shouldn't say anything as this always opens up a can of worms, but I've been giving thought to the next generation of MTR's.
I've been evaluating a TI audio processor chip with miniDSP as a possible replacement for the audio section of the rig. It can perform AGC, band pass filtering, sidetone generation (with level control), electronic volume control and headphone driver (either class AB or class D). The only problem is that the chip is in a 5mm square leadless package which can't be hand soldered to the board, so I'd probably have to pre-mount it.
It seems to work pretty well, but I somehow managed to blow out the audio inputs on the evaluation board (which cost me $100) the other day so I'm kinda dead in the water until I figure out how to replace it or build a stand alone test board.
There is a lot of demand for a full function LCD display. I've found a neat little one which is a lot less fragile then the one used on the ATS-4 which looks suitable.
I'll probably migrate to the MSP430G family of processors which support capacitive touch switch inputs. It would be nice to eliminate the mechanical push buttons and add a touch keyer option.
I'll probably add a third band since the 40-30-20 selection is pretty desirable.
Finally, I might add a boost regulator so that a single li-ion cell can be used to power the rig.
I'm not sure how long all this new development work is going to take, but it will be a while...keep tuned!
Steve KD1JV

11391. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 17:47:45 UTC
From: Kevin Kleinfelter
Topic: 11372 Message: 11391

It would also assess demand. You'd have some idea whether there were 100
or 1000 people interested.
Kevin / K4KPK

On Wed, Jul 3, 2013 at 1:44 PM, <george@...> wrote:

> **
>
>
> You know that is an interesting idea: a kick-starter concept where
> members could send in $20 (or some other number) understanding that all
> this would do is to allow one to the front of the line (& then pay full
> price for the radio) if & when the product is released.
>

11392. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 17:50:43 UTC
From: John Evans
Topic: 11372 Message: 11392

Elio is going this route with his three wheeled car.
http://www.eliomotors.com/

On Wed, Jul 3, 2013 at 11:47 AM, Kevin Kleinfelter <
kleinfelter.groups@...> wrote:

> **
>
>
> It would also assess demand. You'd have some idea whether there were 100
> or 1000 people interested.
> Kevin / K4KPK
>
> On Wed, Jul 3, 2013 at 1:44 PM, <george@...> wrote:
>
>> **
>>
>>
>> You know that is an interesting idea: a kick-starter concept where
>> members could send in $20 (or some other number) understanding that all
>> this would do is to allow one to the front of the line (& then pay full
>> price for the radio) if & when the product is released.
>>
>
>

11393. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 17:46:18 UTC
From: TJ Campie
Topic: 11372 Message: 11393

only problem is that EVERYBODY will do that so the front of the line won't be very "front" lol

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Jul 3, 2013 at 12:45 PM, James Fehling <n2jfdny@gmail.com> wrote:

> **
>
>
> thats an awesome idea, i would do it
>
>
> On Wed, Jul 3, 2013 at 1:44 PM, <george@...> wrote:
>
>> **
>>
>>
>> You know that is an interesting idea: a kick-starter concept where
>> members could send in $20 (or some other number) understanding that all
>> this would do is to allow one to the front of the line (& then pay full
>> price for the radio) if & when the product is released.
>>
>> That would not pay for your R&D time but it could pay for your parts &
>> protoboards.
>>
>> Steve, what do you think? George WA1PDY
>>
>
>
>
> --
> James Fehling Jr
> N2JFD
> Vice President
> Suffolk County Radio Club
> Education and Testing Coordinator, VE Liaison
> SkyWarn Spotter 10-183, 10-10 #76060, NAQCC #6021
> www.suffolkcountyradioclub.org
>

>
>

11394. RE: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 18:41:14 UTC
From: Dale Putnam
Topic: 11372 Message: 11394

and the price of the radio, just goes higher, no actual benefit to anyone.

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: tom.campie@...
Date: Wed, 3 Jul 2013 12:46:18 -0500
Subject: Re: [AT_Sprint] MTR Radio

only problem is that EVERYBODY will do that so the front of the line won't be very "front" lol

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Jul 3, 2013 at 12:45 PM, James Fehling <n2jfdny@...> wrote:

thats an awesome idea, i would do it

On Wed, Jul 3, 2013 at 1:44 PM, <george@...> wrote:

You know that is an interesting idea: a kick-starter concept where members could send in $20 (or some other number) understanding that all this would do is to allow one to the front of the line (& then pay full price for the radio) if & when the product is released.

That would not pay for your R&D time but it could pay for your parts & protoboards.

Steve, what do you think? George WA1PDY

--
James Fehling Jr
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Vice President
Suffolk County Radio Club
Education and Testing Coordinator, VE Liaison
SkyWarn Spotter 10-183, 10-10 #76060, NAQCC #6021
www.suffolkcountyradioclub.org

11395. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 18:45:19 UTC
From: Mike Crownover
Topic: 11372 Message: 11395

I wouldn't mind paying for some of the development costs.....Mike AD5A

----- Original Message -----

Awesome!

I am sure this group wouldn't mind participating in development costs…
I would.

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Jul 3, 2013, at 1:14 PM, Steven Weber wrote:

☐
Does anyone know when the next release of kits will be?

Hard tell'en not know'en

I probably shouldn't say anything as this always opens up a can of worms, but I've been giving thought to the next generation of MTR's.

11396. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 19:02:54 UTC
From: Robin Davies
Topic: 11372 Message: 11396

Steve

The design sounds fab; can't wait for the magic to unfold!

For what it's worth I had to come to terms with soldering a number of QFN packages a few months ago as part of build a OpenHPSDR Hermes board. Normally I'd hand solder SMD parts, but this forced me into buying a $40 toaster oven (from Argos for those in the UK who are interested) and trying a reflow technique out; the inspiration came from this article. Without modification the temperature profile of the oven was perfect, although I used a couple of thermocouples to get a more accurate calibration on the temperature dial on the front of the oven. Aside from a few nerves just before putting the board in the oven the process went pretty smoothly (DAC chips at $100 each make me kind of nervous!). I felt less 'in-control' than soldering by hand - but for a single part I'd be very happy tackling a leadless package....although I appreciate others might differ on their willingness to do this.

73
Robin
G7VKQ

On 03-Jul-2013, at 6:14 PM, Steven Weber wrote:

> □
>
> Does anyone know when the next release of kits will be?
>
> Hard tell'en not know'en
>
> I probably shouldn't say anything as this always opens up a can of worms, but I've been giving thought to the next generation of MTR's.
>
> I've been evaluating a TI audio processor chip with miniDSP as a possible replacement for the audio section of the rig. It can perform AGC, band pass filtering, sidetone generation (with level control), electronic volume control and headphone driver (either class AB or class D). The only problem is that the chip is in a 5mm square leadless package which can't be hand soldered to the board, so I'd probably have to pre-mount it.
>
> It seems to work pretty well, but I somehow managed to blow out the audio inputs on the evaluation board (which cost me $100) the other day so I'm kinda dead in the water until I figure out how to replace it or build a stand alone test board.
>
> There is a lot of demand for a full function LCD display. I've found a neat little one which is a lot less fragile then the one used on the ATS-4 which looks suitable.
>
> I'll probably migrate to the MSP430G family of processors which support capacitive touch switch inputs. It would be nice to eliminate the mechanical push buttons and add a touch keyer option.
>

> I'll probably add a third band since the 40-30-20 selection is pretty desirable.
>
> Finally, I might add a boost regulator so that a single li-ion cell can be used to power the rig.
>
> I'm not sure how long all this new development work is going to take, but it will be a while...keep tuned!
>
> Steve KD1JV
>
>
>
>

11397. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 22:00:41 UTC
From: Steven Weber
Topic: 11372 Message: 11397

Money is not really an issue, having the time to do all the work is. It just takes a while. Taking money from people before hand just makes my life more complicated and stressfull and we don't want that now do we?

Steve

> You know that is an interesting idea: a kick-starter concept where
> members could send in $20 (or some other number) understanding that all
> this would do is to allow one to the front of the line (& then pay full
> price for the radio) if & when the product is released.

11398. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-03 22:20:33 UTC
From: Kevin Kleinfelter
Topic: 11372 Message: 11398

Certainly don't want more stress. That might impact your ability to design. Maybe group members should sign up to wash your car or mow your lawn, to reduce your stress. ;-)
Kevin / K4KPK

On Wed, Jul 3, 2013 at 6:00 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> Money is not really an issue, having the time to do all the work is. It
> just
> takes a while. Taking money from people before hand just makes my life
> more
> complicated and stressfull and we don't want that now do we?
>
> Steve
>
>

11399. Re: [AT_Sprint] MTR Radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-04 02:51:34 UTC
From: wmorrill@...
Topic: 11372 Message: 11399

When I feel stressed, I mow the lawn.
Wendell/N7WM

> Certainly don't want more stress. That might impact your ability to
> design. Maybe group members should sign up to wash your car or mow your
> lawn, to reduce your stress. ;-)
> Kevin / K4KPK
>
> On Wed, Jul 3, 2013 at 6:00 PM, Steven Weber <steve.kd1jv@...>
> wrote:
>
>> **
>>
>>
>> Money is not really an issue, having the time to do all the work is. It
>> just
>> takes a while. Taking money from people before hand just makes my life
>> more
>> complicated and stressfull and we don't want that now do we?
>>
>> Steve
>>
>>
>

11400. MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-05 01:46:12 UTC
From: f4gha
Topic: 11400 Message: 11400

Hi all,

my MTR n°244 is finished. Just happy !
Tonight, I have seen the MTR voltmeter don't work correctly. I have two numerical voltmeters and I made some measurements on my power supply.

The MTR says about 2 volts under the real voltage.
How could I calibrate this one ?

Tnx !
Loïc, FY8PE.

I wrote few words on my website :
http://www.fy8pe.com/FY8PE/MTR_QRP_Rig.html

11401. Re: [AT_Sprint] MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-05 02:18:48 UTC
From: Steven Weber
Topic: 11400 Message: 11401

The MTR says about 2 volts under the real voltage.
How could I calibrate this one ?

Tnx !
Lo?c, FY8PE.

You can't. Make sure the resistor values in the divider are the correct values.
KD1JV

11402. Re: [AT_Sprint] MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-05 06:42:15 UTC
From: F5mpw
Topic: 11400 Message: 11402

Super Loïc, congratulations!

I wait next november to start my MTR... Good job for winter!
73 Philippe

----- Original Message -----
From: f4gha
To: AT_Sprint@yahoogroups.com
Sent: Friday, July 05, 2013 3:46 AM
Subject: [AT_Sprint] MTR 244 is born.

Hi all,

my MTR n°244 is finished. Just happy !
Tonight, I have seen the MTR voltmeter don't work correctly. I have two numerical voltmeters and I made some measurements on my power supply.

The MTR says about 2 volts under the real voltage.
How could I calibrate this one ?

Tnx !
Loïc, FY8PE.

I wrote few words on my website :
http://www.fy8pe.com/FY8PE/MTR_QRP_Rig.html

11403. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-05 15:32:23 UTC
From: f4gha
Topic: 11400 Message: 11403

Hi Philippe, see you by mail ;-)

Ok Steven,
Resistors are all good.

I make some measurement :
- At the end of my power cable I have 10.7v
- At the power point on the PCB I have 8.7v, this is exactly what the MTR read with the battery voltage option.

Still searching a solution...

Thanks !
Loïc. FY8PE.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:

> You can't. Make sure the resistor values in the divider are the correct
> values.
> KD1JV
>

11404. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-05 17:34:12 UTC
From: f4gha
Topic: 11400 Message: 11404

So,

Power cable : bifilar 20awg wire, lenght 1m.

I did some others measurements :
- Power supply : 10.7v
- End of my power cable and on the MTR entry power jack : 10.7v.
- On Q6 : 8.7v enter and exit and 4.7v to D2 and R24.
- On U7 : 8.7v enter and 4.99v exit
- On U4 : 4.99v enter and 3.3 exit

Power supply, power cable, jack, U7 and U4 : no problem.

I'm at the limit of my knowledge... hi

Loïc, FY8PE.

11405. Re: [AT_Sprint] Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-05 18:27:28 UTC
From: Scott Zastoupil
Topic: 11400 Message: 11405

If you have 8.7V on the power entry on the PCB with a 10.7V supply, then the issue is somewhere in your power leads. 2V drop in the wires or connector(s).

Sent from Yahoo! Mail on Android

11406. Re: [AT_Sprint] Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-05 18:28:08 UTC
From: Scott Zastoupil
Topic: 11400 Message: 11406

If you have 8.7V on the power entry on the PCB with a 10.7V supply, then the issue is somewhere in your power leads. 2V drop in the wires or connector(s).

Sent from Yahoo! Mail on Android

11407. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-05 18:28:18 UTC
From: f4gha
Topic: 11400 Message: 11407

What idiot I am !

I am using a 1N4001 diode circuit in order to reduce the supply voltage or battery voltage.

I've just remembered that the drop voltage is not the same when you make a measurement after the diode circuit with or without a charge !

So :
- Power supply and 6 diodes = 12.4 to 10.2v --> diode dropping = 6 x 0.366v
- Power supply and 6 diodes = 12.4 to 8.2v --> diode dropping = 6 x 0.7v

And from the start I asking myself : "why the diodes don't have a voltage dropping of 0.7v ?" Hi !

Anyway, sorry for this careless mistake !

Power measurements :
- Without any settings at 9v : 1.9w on 30m - 2.1w on 20m.
- Then after according the coils :
- 8v : 2.2w on 30m - 2.5w on 20m.
- 9v : 3w on 30m and 20m.
- 10v : 3.8w on 30m and 20m.
- 11v : 4.6w on 30m - 4.4w on 20m.
- 12v : 5.4w on 30m - 4.9w on 20m.
- 9v current : 36ma in RX - 560ma in TX 30m - 600ma in TX 20m.

Everything works great from the start !
See you soon.

Loïc, FY8PE.

11408. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-05 18:29:56 UTC
From: f4gha
Topic: 11400 Message: 11408

CORRECTION, IT'S :

So :
- Power supply and 6 diodes = 12.4 to 10.2v --> diode dropping = 6 x 0.366v
- Power supply and 6 diodes + MTR = 12.4 to 8.2v --> diode dropping = 6 x 0.7v

Tnx.
Loïc.

11409. Re: [AT_Sprint] Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-05 18:37:28 UTC
From: Scott Zastoupil
Topic: 11400 Message: 11409

The "magic" of a semiconductor IV curve. Your DMM impedance was just enough to bias them partially up the curve before going near vertical. Good luck! I got my enclosure in the mail today and its as fantastic as I expected.

Sent from Yahoo! Mail on Android

11410. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-05 22:22:15 UTC
From: f4gha
Topic: 11400 Message: 11410

Thanks for that details Scott. I fall in the trap...

73 ;-)
Loïc.

--- In AT_Sprint@yahoogroups.com, Scott Zastoupil <szastoupil@...> wrote:
>
> The "magic" of a semiconductor IV curve. Your DMM impedance was just enough to bias them partially up the curve before going near vertical. Good luck! I got my enclosure in the mail today and its as fantastic as I expected.
>
> Sent from Yahoo! Mail on Android
>

11411. Re: [AT_Sprint] Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-06 05:36:31 UTC
From: Dale Putnam
Topic: 11400 Message: 11411

Why don't you save all those potential solder joint failures and use just one 5 ohm resister? Works so much better for the tx final protection, and still let's the rx work at full potential.
Have a great day,
Dale - WC7S

-----Original Message-----
From: f4gha <comax@...>
Date: Fri, 5 Jul 2013 18:29:56
To: <AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] Re: MTR 244 is born.

CORRECTION, IT'S :

So :
- Power supply and 6 diodes = 12.4 to 10.2v --> diode dropping = 6 x 0.366v
- Power supply and 6 diodes + MTR = 12.4 to 8.2v --> diode dropping = 6 x 0.7v

Tnx.
Loïc.

11412. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-06 06:17:05 UTC
From: jgaffke
Topic: 11400 Message: 11412

The receiver runs from a 5 volt regulator, should
work the same on any supply between 6 and 12 volts.
Resistor would be fine to protect he TX finals, though
not obvious to me how it would be better than the diodes.
Resistor or diodes, should be hefty enough to dissipate
a watt or so.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "Dale Putnam " wrote:
> Why don't you save all those potential solder joint failures and use just one 5 ohm resister? Works so much better for the tx final protection, and still let's the rx work at full potential.

11413. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-06 11:10:07 UTC
From: f4gha
Topic: 11400 Message: 11413

Hi,

Thanks for comments.
For info, I'm using only 2 or maximum 4 diodes. The 6 diodes circuit is here for extrem solution...

But I will look if I have a 5 Ohms resistor, here in FY I don't have all my tools and components, so I do with what I have... :-)

I have ordered a Boos Buck converter for 4 months now, never received ! :-(. I will be in France in ten days so, I will refind all my tools boxes.

Loïc.

11414. FOXHUNT - 20M Summer Season opener

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-06 13:03:37 UTC
From: Dale Putnam
Topic: 11414 Message: 11414

07/11/2013
1
K4FB
Paul
FL
2
N9NE
Todd
WI

Here are the first two FOXii up for skinning... in the Summer Season of FOXHUNTs

This very next Thursday (local), starting promptly at 0100z (Fri - GMT) or 7 pm MDT, +/- 10KHz from 14.060,

these two skilled, sly, swift foxii, will be emerging from their dens, and it will be up to you to find and grab

a pelt (qso) from each of them. There will be only two, and the following week a different two, continueing for

the entire summer season. 10 weeks, each Thursday. So dust off that qrp gear, oil up them keys, and lets get to it.

Take a look to the sky, to the last thing your shot will touch, until it smacks a FOXii, hopefully deadon. We have only

FIVE DAYS LEFT....

Whew, it has been a long dry summer, my FOX withdrawl was getting unmanageable... how about you?

See you in the pack of hounds... and good luck to all and to all a good hunt.

Have a great season,

--... ...-- Dale - WC7S in Wy

11415. Re: [qfox] FOXHUNT - 20M Summer Season opener

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-06 15:45:13 UTC
From: Paul Womble
Topic: 11414 Message: 11415

Here we go!!!!!!

Hope to see you in the log on Thursday!

Paul K4FB

On 7/6/2013 9:03 AM, Dale Putnam wrote:
>
>
> *07/11/2013* 1 K4FB Paul FL 2 N9NE Todd WI
>
>
> Here are the first two FOXii up for skinning... in the Summer Season
> of FOXHUNTs
> This very next Thursday (local), starting promptly at 0100z (Fri -
> GMT) or 7 pm MDT, +/- 10KHz from 14.060,
> these two skilled, sly, swift foxii, will be emerging from their dens,
> and it will be up to you to find and grab
> a pelt (qso) from each of them. There will be only two, and the
> following week a different two, continueing for
> the entire summer season. 10 weeks, each Thursday. So dust off that
> qrp gear, oil up them keys, and lets get to it.
> Take a look to the sky, to the last thing your shot will touch, until
> it smacks a FOXii, hopefully deadon. We have only
> FIVE DAYS LEFT....
> Whew, it has been a long dry summer, my FOX withdrawl was getting
> unmanageable... how about you?
> See you in the pack of hounds... and good luck to all and to all a
> good hunt.
>
> Have a great season,
>
>
> --... ...-- Dale - WC7S in Wy
>

11416. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-06 20:11:30 UTC
From: jgaffke
Topic: 11400 Message: 11416

Not obvious, but Dale was at least partially right on both points. If the current is ramping up till the FET's blow, higher currents mean a bigger voltage drop across the resistor and thus less voltage to the finals. But if a quick voltage spike from high SWR is what causes the damage to the finals, then it may be all over before the resistor sees any extra current. On receive, the resistor will have less of a voltage drop at 50 ma than the diodes, allowing you to operate with lower battery voltages. But if your battery is under 10 volts, you probably don't want the diodes or resistor in anyway. Diodes give a relatively fixed voltage drop across a wide range of current draw, so less going on to think about. I'd consider using either method.

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
> not obvious to me how it would be better than the diodes.

11417. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-06 23:30:19 UTC
From: Yannick
Topic: 11400 Message: 11417

Hi Loic, Dale, fellow QRPers,

Congrats Loic on your new MTR. A MTR-MTR QSO between us would be great but Guyane is rare enough so that even with 100W it would make my day.

Dale, I personally prefer diodes in order to make a power drop because they allow you to deduce the input voltage easily. If you have 2 diodes and read 10,4V you know your battery is at 11,8V. With a resistor it is bit more tricky.

About DC-DC converters, for a professional project I ordered step-down LM2596 modules from a chinese provider. They are just great. Great part quality and design. I've ordered 6 at first and I am ordering 50 more...
The same provider sell similar circuits to different prices, I have asked him the differences between each and wait for the answer... These are the one I have ordered :
http://www.icstation.com/affiliate_show_banner.php?ref=5&affiliate_pbanner_id=1627

73,
Yan - XV4Y.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

--- In AT_Sprint@yahoogroups.com, "Dale Putnam " <daleputnam@...> wrote:
>
> Why don't you save all those potential solder joint failures and use just one 5 ohm resister? Works so much better for the tx final protection, and still let's the rx work at full potential.
> Have a great day,
> Dale - WC7S
>
> -----Original Message-----
> From: f4gha <comax@...>
> Date: Fri, 5 Jul 2013 18:29:56
> To: <AT_Sprint@yahoogroups.com>
> Subject: [AT_Sprint] Re: MTR 244 is born.
>
>
>
>
>
> CORRECTION, IT'S :
>
> So :
> - Power supply and 6 diodes = 12.4 to 10.2v --> diode dropping = 6 x 0.366v
> - Power supply and 6 diodes + MTR = 12.4 to 8.2v --> diode dropping = 6 x 0.7v

>
> Tnx.
> Loïc.
>

11418. Re: FOXHUNT - 20M Summer Season opener

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-07 05:43:08 UTC
From: Wilford Lindsey
Topic: 11414 Message: 11418

Dear FOXES and Fox hunters:

Well, I frankly have really missed the Foxhunts.....but *finally* they are back! We have two terrific of those Wiley Critters = Foxes getting for our onslaughts = the pileup of hunters. And when I say they are "terrific" I am way understating their abilities. Let me say simply that if get into this coming Thursday evening's first pair of Foxes on 20 Metres.....they **will** hear you!

So here's wishing evening evening great propagation, low noise, and well mannered hounds!

73,
Doc/k0EVZ

Sent from my iPhone

11419. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-07 13:59:28 UTC
From: f4gha
Topic: 11400 Message: 11419

Hi Yannick,

Yes an MTR-MTR QSO would be just wonderful ! But it will be difficult. Hi !
Your link is interesting and for sure, the DC-DC converter is the best solution. If they don't create HF noise !

73's.
Loïc, FY8PE.

--- In AT_Sprint@yahoogroups.com, "Yannick" <yannick.devos@...> wrote:
>
> Hi Loic, Dale, fellow QRPers,
>
> Congrats Loic on your new MTR. A MTR-MTR QSO between us would be great but Guyane is rare enough so that even with 100W it would make my day.
>
> Dale, I personally prefer diodes in order to make a power drop because they allow you to deduce the input voltage easily. If you have 2 diodes and read 10,4V you know your battery is at 11,8V. With a resistor it is bit more tricky.
>
> About DC-DC converters, for a professional project I ordered step-down LM2596 modules from a chinese provider. They are just great. Great part quality and design. I've ordered 6 at first and I am ordering 50 more...
> The same provider sell similar circuits to different prices, I have asked him the differences between each and wait for the answer... These are the one I have ordered :
> http://www.icstation.com/affiliate_show_banner.php?ref=5&affiliate_pbanner_id=1627
>
> 73,
> Yan - XV4Y.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
>
> --- In AT_Sprint@yahoogroups.com, "Dale Putnam " <daleputnam@> wrote:
> >
> > Why don't you save all those potential solder joint failures and use just one 5 ohm resister? Works so much better for the tx final protection, and still let's the rx work at full potential.
> > Have a great day,
> > Dale - WC7S
> >
> > -----Original Message-----
> > From: f4gha <comax@>
> > Date: Fri, 5 Jul 2013 18:29:56
> > To: <AT_Sprint@yahoogroups.com>

> > Subject: [AT_Sprint] Re: MTR 244 is born.
> >
> >
> >
> >
> >
> > CORRECTION, IT'S :
> >
> > So :
> > - Power supply and 6 diodes = 12.4 to 10.2v --> diode dropping = 6 x 0.366v
> > - Power supply and 6 diodes + MTR = 12.4 to 8.2v --> diode dropping = 6 x 0.7v
> >
> > Tnx.
> > Loïc.
> >
>

11420. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-07 22:36:29 UTC
From: jgaffke
Topic: 11400 Message: 11420

I hadn't seen icstation.com before, they got some neat stuff. Just showed up this year, don't see many reviews, but then nothing bad either. Like dx.com (which I have had good luck with thus far, though build quality from some of their sources is poor), they ship direct from China. Great steer, thanks Yan!
Items 1383 and 1627 are almost identical, even the board silkscreen legends are the same. However the later uses higher quality parts on the output filter, claims 5mv at 5 volts 2 amps out, input voltage not specified. Item 1383 is 30 mv "max" ripple, conditions not specified. I'd spring for the extra $0.36 in cost to get the 1627.
Item 1625 is perhaps even more interesting, allowing you to also set the maximum current. So if you set the pots to 10 volts at 1 amp max and your project has a short or reversed part, this power supply will lower the voltage from the nominal 10 volts until it delivers a maximum of 1 amp. Claims 50 mv of ripple max, and has a higher minimum input voltage (and I suspect may not go quite so high on output). Might want to replace the pots with others that are easier to twiddle, add some meters to monitor voltage and current (check out icstation.com's "digital voltmeter" product category), would make a very handy bench supply.
A search for "LM2596" finds other vendors, such as dx.com, amazon.com,
and ebay.com. Some at dx.com include digital voltage readout but have a lower max input voltage and look like cheap phenolic boards, whereas the ones from icstation.com look like quality fiberglass-epoxy boards.
Could have a switcher only power the output FET's of the transmitter, shut it down when receiving if noise is an issue. Might even have an enable that is fast enough for QSK. The pdf for the LM2596 is on ti.com.
Jerry, KE7ER

11421. Re: MTR 244 is born.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 14:59:29 UTC
From: jgaffke
Topic: 11400 Message: 11421

Wow, lots and lots of different LM2596 boards out there, very popular. The LM2596 is about as simple of a switch mode power supply IC as you can get, as shown in the example circuit of the TI data sheet at http://www.ti.com/lit/ds/symlink/lm2596.pdf☐ Disadvantages include a relatively slow switching rate (so bigger parts and slower response, but lower switching losses and easier to work with), and the external freewheeling diode makes it less efficient at low output voltages than a "synchronous" switcher (which has the diode replaced by an active bottom side switch). Only a couple of the LM2596 items on dx.com use the cheap phenolic boards, most look like glass epoxy. There are dozens of vendors for these boards through amazon.com, and even a couple boards at newegg.com. Those with more than one pot probably have the constant current feature. Constant current would be handy for charging batteries or driving high power LED's, in addition to being a nice bench supply. Constant current is not integral to the LM2596, I'd guess it's done with a low side current shunt and an op-amp that overrides the LM2596's voltage feedback resistors somehow. You could drive the ON/OFF pin of the LM2596 directly from a 3.3v MSP430 IO cell. Nothing in the data sheet about how fast it turns on/off, would be a function of how big the output cap is and the startup algorithm, with a switching frequency of 150 KHz it might be several milliseconds. If you do order from icstation.com, you might look at items 1856 and 2150 for a cheap selection of 0805 caps and resistors.
Jerry, KE7ER

11422. ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 18:10:54 UTC
From: digicircles
Topic: 11422 Message: 11422

Gang,

Hoping one of you can advise me on possible causes of a problem I'm having in the receiver of my ATS-2. This weekend during a SOTA peak activation it began intermittently blasting my ears with a loud buzz/hum (somewhere around 60 Hz) lasting several seconds. I could kinda sense it coming on as a little bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly and ends just as abruptly several seconds later. It's loud enough to completely obscure any received signals. I was running off a 12V gel cell at the time it was happening. Despite the issue I was able to make more than a dozen contacts, so the TX side appears to be working okay.

Anybody have any ideas on how to track this down?

73, Dave NK0E

11423. Re: ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 18:32:29 UTC
From: jgaffke
Topic: 11422 Message: 11423

I assume it does not happen when the antenna is disconnected. Check the 5 volt and 3 volt power supply rails. Could be some feedback around one of the audio amps, perhaps due to a leaky cap or solder flux or moisture? Hard to debug intermittent problems. Maybe take an insulated probe and mechanically shove stuff around throughout the audio chain, see if you can find a sensitive spot. If it's consistently happening, go through the audio chain with a scope if you have access to one, see in what stage it first shows up. If no scope, perhaps short out the audio signal, stage by stage, till you see where a short stops the problem? That assumes you can figure out which nodes
not to short, where damage to the rig might occur. Just the first stuff that comes to mind, others may have better ideas.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "digicircles" <dave@...> wrote:
>...receiver of my ATS-2...loud buzz/hum (somewhere around 60 Hz)

11424. ats4 how this can happen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 18:58:56 UTC
From: rustytrap2003
Topic: 11424 Message: 11424

my little rig decided it wants to be on 17 meters now it is built for 15 meters . yes I know 15 has been lousy of late but come on my ats 4 is thinking for its self now !!!! hi hi has any one else had this problem . jim KC0DD

11425. Re: [AT_Sprint] ats4 how this can happen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 18:59:38 UTC
From: TJ Campie
Topic: 11424 Message: 11425

check your band select resistors (assuming they are similar design to the MTR)

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Mon, Jul 8, 2013 at 1:58 PM, rustytrap2003 <rustytrap2003@...>wrote:

> **
>
>
> my little rig decided it wants to be on 17 meters now it is built for 15
> meters . yes I know 15 has been lousy of late but come on my ats 4 is
> thinking for its self now !!!! hi hi has any one else had this problem .
> jim KC0DD
>
>
>

11426. Re: ats4 how this can happen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 19:05:41 UTC
From: rustytrap2003
Topic: 11424 Message: 11426

I have not seen the mtr all I know abt. it is steve kd1jv designed it

--- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
>
> check your band select resistors (assuming they are similar design to the
> MTR)
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Mon, Jul 8, 2013 at 1:58 PM, rustytrap2003 <rustytrap2003@...>wrote:
>
> > **
> >
> >
> > my little rig decided it wants to be on 17 meters now it is built for 15
> > meters . yes I know 15 has been lousy of late but come on my ats 4 is
> > thinking for its self now !!!! hi hi has any one else had this problem .
> > jim KC0DD
> >
> >
> >
>

11427. Re: [AT_Sprint] Re: ats4 how this can happen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 19:07:49 UTC
From: TJ Campie
Topic: 11424 Message: 11427

Check the value of R38. It switches the processor between 15 and 17m band

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Mon, Jul 8, 2013 at 2:05 PM, rustytrap2003 <rustytrap2003@...>wrote:

> **
>
>
> I have not seen the mtr all I know abt. it is steve kd1jv designed it
>
> --- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
> >
> > check your band select resistors (assuming they are similar design to the
> > MTR)
> >
> > 73, W0EA
> > TJ
> > ----
> > QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> > NAQCC #3768 | Flying Pigs QRP #2254
> > Elecraft KX3 SN 288
> > *Because QRO is too easy*
> >
> >
> > On Mon, Jul 8, 2013 at 1:58 PM, rustytrap2003 <rustytrap2003@...>wrote:
> >
> > > **
>
> > >
> > >
> > > my little rig decided it wants to be on 17 meters now it is built for
> 15
> > > meters . yes I know 15 has been lousy of late but come on my ats 4 is
> > > thinking for its self now !!!! hi hi has any one else had this problem
> .
> > > jim KC0DD
> > >
> > >
> > >

> >
>
>
>

11428. Re: [AT_Sprint] ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 19:43:54 UTC
From: Dale Putnam
Topic: 11422 Message: 11428

Is the buzz still in the radio now? Does it do it without an antenna connected? If it appears to be from the antenna, it is the same noise that I hear when the band is open.
Have a great day,
Dale - WC7S

-----Original Message-----
From: digicircles <dave@...>
Date: Mon, 8 Jul 2013 18:10:54
To: <AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem

Gang,

Hoping one of you can advise me on possible causes of a problem I'm having in the receiver of my ATS-2. This weekend during a SOTA peak activation it began intermittently blasting my ears with a loud buzz/hum (somewhere around 60 Hz) lasting several seconds. I could kinda sense it coming on as a little bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly and ends just as abruptly several seconds later. It's loud enough to completely obscure any received signals. I was running off a 12V gel cell at the time it was happening. Despite the issue I was able to make more than a dozen contacts, so the TX side appears to be working okay.

Anybody have any ideas on how to track this down?

73, Dave NK0E

11429. Re: ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 19:45:54 UTC
From: digicircles
Topic: 11422 Message: 11429

Dale, it happens with a dummy load attached, too, so it's not coming from the antenna.

73, Dave NK0E

--- In AT_Sprint@yahoogroups.com, "Dale Putnam " <daleputnam@...> wrote:
>
> Is the buzz still in the radio now? Does it do it without an antenna connected? If it appears to be from the antenna, it is the same noise that I hear when the band is open.
> Have a great day,
> Dale - WC7S
>
> -----Original Message-----
> From: digicircles <dave@...>
> Date: Mon, 8 Jul 2013 18:10:54
> To: <AT_Sprint@yahoogroups.com>
> Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem
>
>
>
>
>
> Gang,
>
> Hoping one of you can advise me on possible causes of a problem I'm having in the receiver of my ATS-2. This weekend during a SOTA peak activation it began intermittently blasting my ears with a loud buzz/hum (somewhere around 60 Hz) lasting several seconds. I could kinda sense it coming on as a little bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly and ends just as abruptly several seconds later. It's loud enough to completely obscure any received signals. I was running off a 12V gel cell at the time it was happening. Despite the issue I was able to make more than a dozen contacts, so the TX side appears to be working okay.
>
> Anybody have any ideas on how to track this down?
>
> 73, Dave NK0E
>

11430. Re: [AT_Sprint] ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 20:18:53 UTC
From: cloud runner
Topic: 11422 Message: 11430

I have an interference just like you describe. Happens whenever my cell phone is near the radio (provided it's on. Never happens when it's off, though).

73 Fred - kt5x

WS0TA

----- Original Message -----
From: "Dale Putnam " <daleputnam@...>
To: "digicircles " <dave@...>; <AT_Sprint@yahoogroups.com>
Sent: Monday, July 08, 2013 1:43 PM
Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem

Is the buzz still in the radio now? Does it do it without an antenna connected? If it appears to be from the antenna, it is the same noise that I hear when the band is open.
Have a great day,
Dale - WC7S

-----Original Message-----
From: digicircles <dave@...>
Date: Mon, 8 Jul 2013 18:10:54
To: <AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem

Gang,

Hoping one of you can advise me on possible causes of a problem I'm having in the receiver of my ATS-2. This weekend during a SOTA peak activation it began intermittently blasting my ears with a loud buzz/hum (somewhere around 60 Hz) lasting several seconds. I could kinda sense it coming on as a little bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly and ends just as abruptly several seconds later. It's loud enough to completely obscure any received signals. I was running off a 12V gel cell at the time it was happening. Despite the issue I was able to make more than a dozen contacts, so the TX side appears to be working okay.

Anybody have any ideas on how to track this down?

73, Dave NK0E

Yahoo! Groups Links

11431. RE: [AT_Sprint] Re: ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 20:31:29 UTC
From: Dale Putnam
Topic: 11422 Message: 11431

Did you have any other electronics with you on the summit, like a cell phone?

If that is the case, then I would have to suspect an internal osc. caused by....

possibly a bypass cap not connected now.. solder connection come undone...maybe?

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: dave@...
Date: Mon, 8 Jul 2013 19:45:54 +0000
Subject: [AT_Sprint] Re: ATS-2 (yes, 2) receive problem

Dale, it happens with a dummy load attached, too, so it's not coming from the antenna.

73, Dave NK0E

--- In AT_Sprint@yahoogroups.com, "Dale Putnam " <daleputnam@...> wrote:
>
> Is the buzz still in the radio now? Does it do it without an antenna connected? If it appears to be from the antenna, it is the same noise that I hear when the band is open.
> Have a great day,
> Dale - WC7S
>
> -----Original Message-----
> From: digicircles <dave@...>
> Date: Mon, 8 Jul 2013 18:10:54
> To: <AT_Sprint@yahoogroups.com>
> Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem
>
>
>
>
>
> Gang,
>
> Hoping one of you can advise me on possible causes of a problem I'm having in the receiver of my ATS-2. This weekend during a SOTA peak activation it began intermittently blasting my ears with a loud buzz/hum (somewhere around 60 Hz) lasting several seconds. I could kinda sense it coming on as a little bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly and ends just as abruptly several seconds later. It's loud enough to completely obscure any received signals. I was running off a 12V gel cell at the time it was happening. Despite the issue I was able to make more than a dozen contacts, so the TX side appears to be working okay.
>

> Anybody have any ideas on how to track this down?
>
> 73, Dave NK0E
>

11432. RE: [AT_Sprint] ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 20:33:23 UTC
From: Mike Olbrisch
Topic: 11422 Message: 11432

EXACTLY. I had the very same problem. And Dale in WY pointed that out to me. My cell phone sits on my desk when home, it has a blue-tooth connection to the whole-home phone system. I had my ATS-4b within 18 inches of the phone, and got that buzz every so often. I moved the phone after Dale suggested it, and the problem went away.

Hope that is it, and thanks Fred for the reminder.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of cloud runner
Sent: Monday, July 08, 2013 14:19
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem

I have an interference just like you describe. Happens whenever my cell phone is near the radio (provided it's on. Never happens when it's off, though).

73 Fred - kt5x

WS0TA

----- Original Message -----
From: "Dale Putnam " <daleputnam@...>
To: "digicircles " <dave@...>; <AT_Sprint@yahoogroups.com>
Sent: Monday, July 08, 2013 1:43 PM
Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem

Is the buzz still in the radio now? Does it do it without an antenna connected? If it appears to be from the antenna, it is the same noise that I

hear when the band is open.
Have a great day,
Dale - WC7S

-----Original Message-----
From: digicircles <dave@...>
Date: Mon, 8 Jul 2013 18:10:54
To: <AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem

Gang,

Hoping one of you can advise me on possible causes of a problem I'm having in the receiver of my ATS-2. This weekend during a SOTA peak activation it began intermittently blasting my ears with a loud buzz/hum (somewhere around

60 Hz) lasting several seconds. I could kinda sense it coming on as a little

bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly and ends just as abruptly several seconds later. It's loud enough to completely obscure any received signals. I was running off a 12V gel cell at

the time it was happening. Despite the issue I was able to make more than a dozen contacts, so the TX side appears to be working okay.

Anybody have any ideas on how to track this down?

73, Dave NK0E

Yahoo! Groups Links

Yahoo! Groups Links

11433. Re: ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 20:41:26 UTC
From: digicircles
Topic: 11422 Message: 11433

I'll have to test this tonight. My cell phone was on and very close to the rig during the whole episode, so it'd be great if that was the source of the problem. Easy to work around, and I don't have to dig around in my radio... :-)

I'll post test results later this evening. Tnx for the suggestion.

73, Dave NK0E

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> EXACTLY. I had the very same problem. And Dale in WY pointed that out to
> me. My cell phone sits on my desk when home, it has a blue-tooth connection
> to the whole-home phone system. I had my ATS-4b within 18 inches of the
> phone, and got that buzz every so often. I moved the phone after Dale
> suggested it, and the problem went away.
>
> Hope that is it, and thanks Fred for the reminder.
>
> Vy73 - Mike - KD9KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/
>
>
>
>
> -----Original Message-----
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of cloud runner
> Sent: Monday, July 08, 2013 14:19
> To: AT_Sprint@yahoogroups.com
> Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
>
> I have an interference just like you describe. Happens whenever my cell
> phone is near the radio (provided it's on. Never happens when it's off,
> though).
>
> 73 Fred - kt5x
>
> WS0TA
>
>
> ----- Original Message -----
> From: "Dale Putnam " <daleputnam@...>
> To: "digicircles " <dave@...>; <AT_Sprint@yahoogroups.com>
> Sent: Monday, July 08, 2013 1:43 PM

> Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
>
>
> Is the buzz still in the radio now? Does it do it without an antenna
> connected? If it appears to be from the antenna, it is the same noise that I
>
> hear when the band is open.
> Have a great day,
> Dale - WC7S
>
> -----Original Message-----
> From: digicircles <dave@...>
> Date: Mon, 8 Jul 2013 18:10:54
> To: <AT_Sprint@yahoogroups.com>
> Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem
>
>
>
>
>
> Gang,
>
> Hoping one of you can advise me on possible causes of a problem I'm having
> in the receiver of my ATS-2. This weekend during a SOTA peak activation it
> began intermittently blasting my ears with a loud buzz/hum (somewhere around
>
> 60 Hz) lasting several seconds. I could kinda sense it coming on as a little
>
> bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly
> and ends just as abruptly several seconds later. It's loud enough to
> completely obscure any received signals. I was running off a 12V gel cell at
>
> the time it was happening. Despite the issue I was able to make more than a
> dozen contacts, so the TX side appears to be working okay.
>
> Anybody have any ideas on how to track this down?
>
> 73, Dave NK0E
>
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> Yahoo! Groups Links
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> Yahoo! Groups Links
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11434. Re: ats4 how this can happen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 20:50:32 UTC
From: jgaffke
Topic: 11424 Message: 11434

Tom might have nailed it for you, but here's a few more details. There's a voltage divider from 3.3v to ground across R43=47k, and R38=3.6k if stuffed for 15 meters. That node in the middle gets measured by the processor, should be at 3.3v*(3.6k/(47+3.6k)) = 0.235 volts. Measure that with a voltmeter, check for cold solder joints and shorts and resistor values if it's wrong. Perhaps R38 has a short across it? If the other bands work and all the above checks out, you might try increasing the value of R38, further away from the value of 1k that is specified for the 17 meter stuffing option. Note that the build instructions consistently show 3.6k for R38, but the schematics show 3.9k. Perhaps the firmware was written to expect 3.9k at R38, but the board was kitted up for 3.6k? The next step up is 10k for 20 meters, so you could probably increase the resistance of R38 before getting into trouble.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, TJ Campie <tom.campie@...> wrote:
> Check the value of R38. It switches the processor between 15 and 17

11435. Re: ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 22:49:05 UTC
From: digicircles
Topic: 11422 Message: 11435

No question, it's my cell phone causing the interference I was hearing. When it's happening, it gets louder when I move the phone closer to the rig. Everything's nice and quiet if I put my phone in airplane mode. Thanks for the tip, everyone. Mystery solved.

73 de Dave NK0E

--- In AT_Sprint@yahoogroups.com, "digicircles" <dave@...> wrote:
>
> I'll have to test this tonight. My cell phone was on and very close to the rig during the whole episode, so it'd be great if that was the source of the problem. Easy to work around, and I don't have to dig around in my radio... :-)
>
> I'll post test results later this evening. Tnx for the suggestion.
>
> 73, Dave NK0E
>
> --- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@> wrote:
> >
> > EXACTLY. I had the very same problem. And Dale in WY pointed that out to
> > me. My cell phone sits on my desk when home, it has a blue-tooth connection
> > to the whole-home phone system. I had my ATS-4b within 18 inches of the
> > phone, and got that buzz every so often. I moved the phone after Dale
> > suggested it, and the problem went away.
> >
> > Hope that is it, and thanks Fred for the reminder.
> >
> > Vy73 - Mike - KD9KC.
> > El Paso, Texas - DM61rt.
> > W5-SOTA Association Manager.
> > NA-SOTA info: http://na-sota.org/
> >
> >
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> >
> > -----Original Message-----
> > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> > Of cloud runner
> > Sent: Monday, July 08, 2013 14:19
> > To: AT_Sprint@yahoogroups.com
> > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
> >
> > I have an interference just like you describe. Happens whenever my cell
> > phone is near the radio (provided it's on. Never happens when it's off,
> > though).
> >

> > 73 Fred - kt5x
> >
> > WS0TA
> >
> >
> > ----- Original Message -----
> > From: "Dale Putnam " <daleputnam@>
> > To: "digicircles " <dave@>; <AT_Sprint@yahoogroups.com>
> > Sent: Monday, July 08, 2013 1:43 PM
> > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
> >
> >
> > Is the buzz still in the radio now? Does it do it without an antenna
> > connected? If it appears to be from the antenna, it is the same noise that I
> >
> > hear when the band is open.
> > Have a great day,
> > Dale - WC7S
> >
> > -----Original Message-----
> > From: digicircles <dave@>
> > Date: Mon, 8 Jul 2013 18:10:54
> > To: <AT_Sprint@yahoogroups.com>
> > Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem
> >
> >
> >
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> >
> > Gang,
> >
> > Hoping one of you can advise me on possible causes of a problem I'm having
> > in the receiver of my ATS-2. This weekend during a SOTA peak activation it
> > began intermittently blasting my ears with a loud buzz/hum (somewhere around
> >
> > 60 Hz) lasting several seconds. I could kinda sense it coming on as a little
> >
> > bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly
> > and ends just as abruptly several seconds later. It's loud enough to
> > completely obscure any received signals. I was running off a 12V gel cell at
> >
> > the time it was happening. Despite the issue I was able to make more than a
> > dozen contacts, so the TX side appears to be working okay.
> >
> > Anybody have any ideas on how to track this down?
> >
> > 73, Dave NK0E
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> > Yahoo! Groups Links
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> > Yahoo! Groups Links
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11436. LM2596 boards on ICStation (was MTR 244 is born)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 23:53:14 UTC
From: Yannick
Topic: 11400 Message: 11436

Hi Jerry,

This is my last e-mail on the topic as I don't think this group is a place for talking at large about commercial products.

ICstation.com website is only 3-4 months old but I am buying from them for 2 years already. They speak good english and are responsive.
However, don't expect too much from their "technical staff". Like every similar website (except Adafruit or Sparkfun perhaps) they don't really know what their selling, they just move parts.

The "1627" board is of very good quality, very neat assembling, but part quality is very variable with these providers so I will not say anything about the other modules.
The circuit uses synchronous rectification and have a good performances. My friend whit whom I am working on this project has tested them from 26V->5V under 3A and they don't even get warm.

I also bought several MMA7455 accelerometer modules from them. They are identical to the ones I bought from another provider. Good in all respects but not stellar.

By the way, the same provider has a very nice L/C meter too. Seems inspired by L/C Meter IIb from AADE but at 1/3 of the price.
http://xv4y.radioclub.asia/2013/07/08/inductancemetre-et-capacimetre-chez-icstation-com/

73,
Yan - XV4Y.

--- In AT_Sprint@yahoogroups.com, "jgaffke" <jgaffke@...> wrote:
>
> I hadn't seen icstation.com before, they got some neat stuff. Just showed up this year, don't see many reviews, but then nothing bad either. Like dx.com (which I have had good luck with thus far, though build quality from some of their sources is poor), they ship direct from China. Great steer, thanks Yan!
> Items 1383 and 1627 are almost identical, even the board silkscreen legends are the same. However the later uses higher quality parts on the output filter, claims 5mv at 5 volts 2 amps out, input voltage not specified. Item 1383 is 30 mv "max" ripple, conditions not specified. I'd spring for the extra $0.36 in cost to get the 1627.
> Item 1625 is perhaps even more interesting, allowing you to also set the maximum current. So if you set the pots to 10 volts at 1 amp max and your project has a short or reversed part, this power supply will lower the voltage from the nominal 10 volts until it delivers a maximum of 1 amp. Claims 50 mv of ripple max, and has a higher minimum input voltage (and I suspect may not go quite so high on output). Might want to replace the pots with others that are easier to twiddle, add some meters to monitor voltage and current (check out icstation.com's "digital voltmeter" product category), would make a very handy bench supply.
> A search for "LM2596" finds other vendors, such as dx.com, amazon.com,
> and ebay.com. Some at dx.com include digital voltage readout but have a lower max input

voltage and look like cheap phenolic boards, whereas the ones from icstation.com look like quality fiberglass-epoxy boards.
> Could have a switcher only power the output FET's of the transmitter, shut it down when receiving if noise is an issue. Might even have an enable that is fast enough for QSK. The pdf for the LM2596 is on ti.com.
> Jerry, KE7ER
>

11437. RE: [AT_Sprint] Re: ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-08 23:59:45 UTC
From: Mike Olbrisch
Topic: 11422 Message: 11437

OUTSTANDING!!!!! Glad it was an easy fix for ya!

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of digicircles
Sent: Monday, July 08, 2013 16:49
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: ATS-2 (yes, 2) receive problem

No question, it's my cell phone causing the interference I was hearing. When
it's happening, it gets louder when I move the phone closer to the rig.
Everything's nice and quiet if I put my phone in airplane mode. Thanks for
the tip, everyone. Mystery solved.

73 de Dave NK0E

--- In AT_Sprint@yahoogroups.com, "digicircles" <dave@...> wrote:
>
> I'll have to test this tonight. My cell phone was on and very close to the
rig during the whole episode, so it'd be great if that was the source of the
problem. Easy to work around, and I don't have to dig around in my radio...
:-)
>
> I'll post test results later this evening. Tnx for the suggestion.
>
> 73, Dave NK0E
>
> --- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@> wrote:
> >
> > EXACTLY. I had the very same problem. And Dale in WY pointed that out
to
> > me. My cell phone sits on my desk when home, it has a blue-tooth
connection
> > to the whole-home phone system. I had my ATS-4b within 18 inches of the
> > phone, and got that buzz every so often. I moved the phone after Dale
> > suggested it, and the problem went away.
> >
> > Hope that is it, and thanks Fred for the reminder.
> >
> > Vy73 - Mike - KD9KC.
> > El Paso, Texas - DM61rt.

> > W5-SOTA Association Manager.
> > NA-SOTA info: http://na-sota.org/
> >
> >
> >
> >
> > -----Original Message-----
> > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On
Behalf
> > Of cloud runner
> > Sent: Monday, July 08, 2013 14:19
> > To: AT_Sprint@yahoogroups.com
> > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
> >
> > I have an interference just like you describe. Happens whenever my cell

> > phone is near the radio (provided it's on. Never happens when it's off,

> > though).
> >
> > 73 Fred - kt5x
> >
> > WS0TA
> >
> >
> > ----- Original Message -----
> > From: "Dale Putnam " <daleputnam@>
> > To: "digicircles " <dave@>; <AT_Sprint@yahoogroups.com>
> > Sent: Monday, July 08, 2013 1:43 PM
> > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
> >
> >
> > Is the buzz still in the radio now? Does it do it without an antenna
> > connected? If it appears to be from the antenna, it is the same noise
that I
> >
> > hear when the band is open.
> > Have a great day,
> > Dale - WC7S
> >
> > -----Original Message-----
> > From: digicircles <dave@>
> > Date: Mon, 8 Jul 2013 18:10:54
> > To: <AT_Sprint@yahoogroups.com>
> > Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem
> >
> >
> >
> >
> >
> > Gang,

> >
> > Hoping one of you can advise me on possible causes of a problem I'm
having
> > in the receiver of my ATS-2. This weekend during a SOTA peak activation
it
> > began intermittently blasting my ears with a loud buzz/hum (somewhere
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> >
> > 60 Hz) lasting several seconds. I could kinda sense it coming on as a
little
> >
> > bit of "sizzle" or crackle in the audio, and then the buzz starts
abruptly
> > and ends just as abruptly several seconds later. It's loud enough to
> > completely obscure any received signals. I was running off a 12V gel
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> >
> > the time it was happening. Despite the issue I was able to make more
than a
> > dozen contacts, so the TX side appears to be working okay.
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> > 73, Dave NK0E
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Yahoo! Groups Links

11438. Capacitive Touch keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 00:34:24 UTC
From: Steven Weber
Topic: 11438 Message: 11438

I decided to see if I could figure out how to make the capacitve touch switches work and the obvious first test application was to implement the keyer.

It's still a work in progess, but I have a basic keyer now working. I learned a lot and found out it might not be practical to implement in the MTR. It's looking like using a seperate processor to handle the switches would be the way to do it.

In the mean time, once I get all the features added to the keyer (Like message memory), I'll post the source code and associated info for building a stand alone memory keyer. This will be easy for those of you who bought one of the TI "launchpad" eval boards. Unfortunately, the chip supplied with the eval board doesn't have the pin oscillator function required. I'm using a MSP430G2452 chip, which is a bit of over kill for this application. I'll have to look to see if there is a suitable 14 pin chip available to use instead.

72, Steve KD1JV

11439. Wanted: ATS-4B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 02:08:25 UTC
From: Robin Kidd
Topic: 11439 Message: 11439

Does anyone have an ATS-4B either built or still in kit form that they would be willing to part with? Please contact me off list - w4ien@... if you do. Thank you.

Robin
W4IEN

11440. Re: [AT_Sprint] Re: ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 02:19:59 UTC
From: Johnny Matlock
Topic: 11422 Message: 11440

Hmm, might be time to ditch the new tech and play HF radio?
just poking at you, Dave.
been there done that!
72
Johnny AC0BQ

On Jul 8, 2013, at 17:49, "digicircles" <dave@...> wrote:

> No question, it's my cell phone causing the interference I was hearing. When it's happening, it gets louder when I move the phone closer to the rig. Everything's nice and quiet if I put my phone in airplane mode. Thanks for the tip, everyone. Mystery solved.
>
> 73 de Dave NK0E
>
> --- In AT_Sprint@yahoogroups.com, "digicircles" <dave@...> wrote:
> >
> > I'll have to test this tonight. My cell phone was on and very close to the rig during the whole episode, so it'd be great if that was the source of the problem. Easy to work around, and I don't have to dig around in my radio... :-)
> >
> > I'll post test results later this evening. Tnx for the suggestion.
> >
> > 73, Dave NK0E
> >
> > --- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@> wrote:
> > >
> > > EXACTLY. I had the very same problem. And Dale in WY pointed that out to
> > > me. My cell phone sits on my desk when home, it has a blue-tooth connection
> > > to the whole-home phone system. I had my ATS-4b within 18 inches of the
> > > phone, and got that buzz every so often. I moved the phone after Dale
> > > suggested it, and the problem went away.
> > >
> > > Hope that is it, and thanks Fred for the reminder.
> > >
> > > Vy73 - Mike - KD9KC.
> > > El Paso, Texas - DM61rt.
> > > W5-SOTA Association Manager.
> > > NA-SOTA info: http://na-sota.org/
> > >
> > >
> > >
> > >
> > > -----Original Message-----
> > > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> > > Of cloud runner

> > > Sent: Monday, July 08, 2013 14:19
> > > To: AT_Sprint@yahoogroups.com
> > > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
> > >
> > > I have an interference just like you describe. Happens whenever my cell
> > > phone is near the radio (provided it's on. Never happens when it's off,
> > > though).
> > >
> > > 73 Fred - kt5x
> > >
> > > WS0TA
> > >
> > >
> > > ----- Original Message -----
> > > From: "Dale Putnam " <daleputnam@>
> > > To: "digicircles " <dave@>; <AT_Sprint@yahoogroups.com>
> > > Sent: Monday, July 08, 2013 1:43 PM
> > > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
> > >
> > >
> > > Is the buzz still in the radio now? Does it do it without an antenna
> > > connected? If it appears to be from the antenna, it is the same noise that I
> > >
> > > hear when the band is open.
> > > Have a great day,
> > > Dale - WC7S
> > >
> > > -----Original Message-----
> > > From: digicircles <dave@>
> > > Date: Mon, 8 Jul 2013 18:10:54
> > > To: <AT_Sprint@yahoogroups.com>
> > > Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem
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> > > Gang,
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> > > Hoping one of you can advise me on possible causes of a problem I'm having
> > > in the receiver of my ATS-2. This weekend during a SOTA peak activation it
> > > began intermittently blasting my ears with a loud buzz/hum (somewhere around
> > >
> > > 60 Hz) lasting several seconds. I could kinda sense it coming on as a little
> > >
> > > bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly
> > > and ends just as abruptly several seconds later. It's loud enough to
> > > completely obscure any received signals. I was running off a 12V gel cell at
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> > > the time it was happening. Despite the issue I was able to make more than a

> > > dozen contacts, so the TX side appears to be working okay.
> > >
> > > Anybody have any ideas on how to track this down?
> > >
> > > 73, Dave NK0E
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11441. Re: [AT_Sprint] ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 02:50:08 UTC
From: Hank Greeb
Topic: 11422 Message: 11441

Glad this worked out. On a similar note, we had a very bad case of RFI during Field Day this year. We were careful to have "analog" power supplies for everything, BUT,

we had a small "wal-wart" analogsupply for a WiFirouter. it generated a bit of RFI on 20meters, but itdidn't dawn on us thatthe S-7 to S-9 RFI was coming from that "Wal-Wart" supply on 80 and 40 meters. Drats! We had probably <50% of the Q's we might have made had we figured it out much earlier in the Field Day period.

72/73 de n8xx Hg
QRP >99.44% of the time

On 7/8/2013 2:10 PM, digicircles wrote:
> Gang,
>
> Hoping one of you can advise me on possible causes of a problem I'm having in the receiver of my ATS-2. This weekend during a SOTA peak activation it began intermittently blasting my ears with a loud buzz/hum (somewhere around 60 Hz) lasting several seconds. I could kinda sense it coming on as a little bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly and ends just as abruptly several seconds later. It's loud enough to completely obscure any received signals. I was running off a 12V gel cell at the time it was happening. Despite the issue I was able to make more than a dozen contacts, so the TX side appears to be working okay.
>
> Anybody have any ideas on how to track this down?
>
> 73, Dave NK0E

11442. Re: [AT_Sprint] Capacitive Touch keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 08:05:03 UTC
From: Colin Tuckley
Topic: 11438 Message: 11442

Quoting Steven Weber <steve.kd1jv@...>:

> I decided to see if I could figure out how to make the capacitve touch
> switches work and the obvious first test application was to implement the
> keyer.

Steve, One thing to think about, do these C-switches work when the
user is wearing gloves? If they don't then it could be a problem for
people wanting to use the rig in the winter. Can there be an option to
build with standard mechanical switches please?

Colin G8TMV

11443. Re: [AT_Sprint] Capacitive Touch keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 08:36:47 UTC
From: Gabriel Moreno
Topic: 11438 Message: 11443

There's alway capacitive finger tip gloves from REI. They are intended for people to be able to use their smartphones with gloves on.

Gabriel Moreno - N6OSB
Sent from my iPad

On Jul 9, 2013, at 1:05 AM, Colin Tuckley <colin@...> wrote:

> Quoting Steven Weber <steve.kd1jv@...>:
>
> > I decided to see if I could figure out how to make the capacitve touch
> > switches work and the obvious first test application was to implement the
> > keyer.
>
> Steve, One thing to think about, do these C-switches work when the
> user is wearing gloves? If they don't then it could be a problem for
> people wanting to use the rig in the winter. Can there be an option to
> build with standard mechanical switches please?
>
> Colin G8TMV
>
>

11444. Re: [AT_Sprint] Capacitive Touch keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 11:53:33 UTC
From: Colin Tuckley
Topic: 11438 Message: 11444

Quoting Gabriel Moreno <esclavosoy.ml@...>:

> There's alway capacitive finger tip gloves from REI. They are
> intended for people to be able to use their smartphones with gloves
> on.

<Pedantic Mode = ON>

But they only have REI in the USA and I'm not in the USA.

<Pedantic Mode = OFF>

Yes, I suppose special gloves would work, but it's still a valid point.

Colin G8TMV

11445. Re: ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 12:33:57 UTC
From: Dave
Topic: 11422 Message: 11445

That's what I get for climbing a summit that has cell coverage... Next time I'll go someplace completely devoid of civilization!

73 Dave NK0E

--- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@...> wrote:
>
> Hmm, might be time to ditch the new tech and play HF radio?
> just poking at you, Dave.
> been there done that!
> 72
> Johnny AC0BQ
>
>
> On Jul 8, 2013, at 17:49, "digicircles" <dave@...> wrote:
>
> > No question, it's my cell phone causing the interference I was hearing. When it's happening, it gets louder when I move the phone closer to the rig. Everything's nice and quiet if I put my phone in airplane mode. Thanks for the tip, everyone. Mystery solved.
> >
> > 73 de Dave NK0E
> >
> > --- In AT_Sprint@yahoogroups.com, "digicircles" <dave@> wrote:
> > >
> > > I'll have to test this tonight. My cell phone was on and very close to the rig during the whole episode, so it'd be great if that was the source of the problem. Easy to work around, and I don't have to dig around in my radio... :-)
> > >
> > > I'll post test results later this evening. Tnx for the suggestion.
> > >
> > > 73, Dave NK0E
> > >
> > > --- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@> wrote:
> > > >
> > > > EXACTLY. I had the very same problem. And Dale in WY pointed that out to
> > > > me. My cell phone sits on my desk when home, it has a blue-tooth connection
> > > > to the whole-home phone system. I had my ATS-4b within 18 inches of the
> > > > phone, and got that buzz every so often. I moved the phone after Dale
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> > > > NA-SOTA info: http://na-sota.org/
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> > > > -----Original Message-----
> > > > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
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> > > > Sent: Monday, July 08, 2013 14:19
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> > > > 73 Fred - kt5x
> > > >
> > > > WS0TA
> > > >
> > > >
> > > > ----- Original Message -----
> > > > From: "Dale Putnam " <daleputnam@>
> > > > To: "digicircles " <dave@>; <AT_Sprint@yahoogroups.com>
> > > > Sent: Monday, July 08, 2013 1:43 PM
> > > > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
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> > > >
> > > > Is the buzz still in the radio now? Does it do it without an antenna
> > > > connected? If it appears to be from the antenna, it is the same noise that I
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> > > > hear when the band is open.
> > > > Have a great day,
> > > > Dale - WC7S
> > > >
> > > > -----Original Message-----
> > > > From: digicircles <dave@>
> > > > Date: Mon, 8 Jul 2013 18:10:54
> > > > To: <AT_Sprint@yahoogroups.com>
> > > > Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem
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> > > >
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> > > >
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> > > >
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> > > > 60 Hz) lasting several seconds. I could kinda sense it coming on as a little
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> > > > bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly
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> > > > the time it was happening. Despite the issue I was able to make more than a
> > > > dozen contacts, so the TX side appears to be working okay.
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> > > > Anybody have any ideas on how to track this down?
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> > > > 73, Dave NK0E
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> > > > Yahoo! Groups Links
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11446. RE: [AT_Sprint] Re: ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 12:36:03 UTC
From: Dale Putnam
Topic: 11422 Message: 11446

Or.. make airplane mode a well known and easy access button.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: dave@...
Date: Tue, 9 Jul 2013 12:33:57 +0000
Subject: [AT_Sprint] Re: ATS-2 (yes, 2) receive problem

That's what I get for climbing a summit that has cell coverage... Next time I'll go someplace completely devoid of civilization!

73 Dave NK0E

--- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@...> wrote:

>

> Hmm, might be time to ditch the new tech and play HF radio?

> just poking at you, Dave.

> been there done that!

> 72

> Johnny AC0BQ

>

>

> On Jul 8, 2013, at 17:49, "digicircles" <dave@...> wrote:

>

> > No question, it's my cell phone causing the interference I was hearing. When it's happening, it gets louder when I move the phone closer to the rig. Everything's nice and quiet if I put my phone in airplane mode. Thanks for the tip, everyone. Mystery solved.

> >

> > 73 de Dave NK0E

> >

> > --- In AT_Sprint@yahoogroups.com, "digicircles" <dave@> wrote:

> > >

> > > I'll have to test this tonight. My cell phone was on and very close to the rig during the whole episode, so it'd be great if that was the source of the problem. Easy to work around, and I don't have to dig around in my radio... :-)

> > >

> > > I'll post test results later this evening. Tnx for the suggestion.

> > >

> > > 73, Dave NK0E

> > >

> > > --- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@> wrote:

> > > >

> > > > EXACTLY. I had the very same problem. And Dale in WY pointed that out to

> > > > me. My cell phone sits on my desk when home, it has a blue-tooth connection

> > > > to the whole-home phone system. I had my ATS-4b within 18 inches of the

> > > > phone, and got that buzz every so often. I moved the phone after Dale

> > > > suggested it, and the problem went away.

> > > >

> > > > Hope that is it, and thanks Fred for the reminder.

> > > >

> > > > Vy73 - Mike - KD9KC.

> > > > El Paso, Texas - DM61rt.

> > > > W5-SOTA Association Manager.

> > > > NA-SOTA info: http://na-sota.org/

> > > >

> > > >

> > > >

> > > >

> > > > -----Original Message-----

> > > > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf

> > > > Of cloud runner

> > > > Sent: Monday, July 08, 2013 14:19

> > > > To: AT_Sprint@yahoogroups.com

> > > > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem

> > > >

> > > > I have an interference just like you describe. Happens whenever my cell

> > > > phone is near the radio (provided it's on. Never happens when it's off,

> > > > though).

> > > >

> > > > 73 Fred - kt5x

> > > >

> > > > WS0TA

> > > >

> > > >

> > > > ----- Original Message -----

> > > > From: "Dale Putnam " <daleputnam@>

> > > > To: "digicircles " <dave@>; <AT_Sprint@yahoogroups.com>

> > > > Sent: Monday, July 08, 2013 1:43 PM

> > > > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem

> > > >

> > > >

> > > > Is the buzz still in the radio now? Does it do it without an antenna

> > > > connected? If it appears to be from the antenna, it is the same noise that I

> > > >

> > > > hear when the band is open.

> > > > Have a great day,

> > > > Dale - WC7S

> > > >

> > > > -----Original Message-----

> > > > From: digicircles <dave@>

> > > > Date: Mon, 8 Jul 2013 18:10:54

> > > > To: <AT_Sprint@yahoogroups.com>

> > > > Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem

> > > >

> > > >

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> > > >

> > > >

> > > > Gang,

> > > >

> > > > Hoping one of you can advise me on possible causes of a problem I'm having

> > > > in the receiver of my ATS-2. This weekend during a SOTA peak activation it

> > > > began intermittently blasting my ears with a loud buzz/hum (somewhere around

> > > >

> > > > 60 Hz) lasting several seconds. I could kinda sense it coming on as a little

> > > >

> > > > bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly

> > > > and ends just as abruptly several seconds later. It's loud enough to

> > > > completely obscure any received signals. I was running off a 12V gel cell at

> > > >

> > > > the time it was happening. Despite the issue I was able to make more than a

> > > > dozen contacts, so the TX side appears to be working okay.

> > > >

> > > > Anybody have any ideas on how to track this down?

> > > >

> > > > 73, Dave NK0E

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11447. Re: [AT_Sprint] Re: ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 12:51:15 UTC
From: cloud runner
Topic: 11422 Message: 11447

Dave, experiment a little. I find that at about five feet away, the problem is gone.

73 Fred - KT5X

aka WS0TA

----- Original Message -----
From: Dale Putnam
To: AT Sprint
Sent: Tuesday, July 09, 2013 6:36 AM
Subject: RE: [AT_Sprint] Re: ATS-2 (yes, 2) receive problem

Or.. make airplane mode a well known and easy access button.

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: dave@...
Date: Tue, 9 Jul 2013 12:33:57 +0000
Subject: [AT_Sprint] Re: ATS-2 (yes, 2) receive problem

That's what I get for climbing a summit that has cell coverage... Next time I'll go someplace completely devoid of civilization!

73 Dave NK0E

--- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@...> wrote:
>
> Hmm, might be time to ditch the new tech and play HF radio?
> just poking at you, Dave.
> been there done that!
> 72
> Johnny AC0BQ
>
>
> On Jul 8, 2013, at 17:49, "digicircles" <dave@...> wrote:
>
> > No question, it's my cell phone causing the interference I was hearing. When it's happening, it gets louder when I move the phone closer to the rig. Everything's nice and quiet if I put my phone in airplane mode. Thanks for the tip, everyone. Mystery solved.
> >
> > 73 de Dave NK0E
> >
> > --- In AT_Sprint@yahoogroups.com, "digicircles" <dave@> wrote:

> > >
> > > I'll have to test this tonight. My cell phone was on and very close to the rig during the whole episode, so it'd be great if that was the source of the problem. Easy to work around, and I don't have to dig around in my radio... :-)
> > >
> > > I'll post test results later this evening. Tnx for the suggestion.
> > >
> > > 73, Dave NK0E
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> > > --- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@> wrote:
> > > >
> > > > EXACTLY. I had the very same problem. And Dale in WY pointed that out to
> > > > me. My cell phone sits on my desk when home, it has a blue-tooth connection
> > > > to the whole-home phone system. I had my ATS-4b within 18 inches of the
> > > > phone, and got that buzz every so often. I moved the phone after Dale
> > > > suggested it, and the problem went away.
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> > > > Hope that is it, and thanks Fred for the reminder.
> > > >
> > > > Vy73 - Mike - KD9KC.
> > > > El Paso, Texas - DM61rt.
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> > > > NA-SOTA info: http://na-sota.org/
> > > >
> > > >
> > > >
> > > >
> > > > -----Original Message-----
> > > > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> > > > Of cloud runner
> > > > Sent: Monday, July 08, 2013 14:19
> > > > To: AT_Sprint@yahoogroups.com
> > > > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
> > > >
> > > > I have an interference just like you describe. Happens whenever my cell
> > > > phone is near the radio (provided it's on. Never happens when it's off,
> > > > though).
> > > >
> > > > 73 Fred - kt5x
> > > >
> > > > WS0TA
> > > >
> > > >
> > > > ----- Original Message -----
> > > > From: "Dale Putnam " <daleputnam@>
> > > > To: "digicircles " <dave@>; <AT_Sprint@yahoogroups.com>
> > > > Sent: Monday, July 08, 2013 1:43 PM
> > > > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
> > > >
> > > >

> > > > Is the buzz still in the radio now? Does it do it without an antenna
> > > > connected? If it appears to be from the antenna, it is the same noise that I
> > > >
> > > > hear when the band is open.
> > > > Have a great day,
> > > > Dale - WC7S
> > > >
> > > > -----Original Message-----
> > > > From: digicircles <dave@>
> > > > Date: Mon, 8 Jul 2013 18:10:54
> > > > To: <AT_Sprint@yahoogroups.com>
> > > > Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem
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> > > > 60 Hz) lasting several seconds. I could kinda sense it coming on as a little
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> > > > bit of "sizzle" or crackle in the audio, and then the buzz starts abruptly
> > > > and ends just as abruptly several seconds later. It's loud enough to
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> > > > the time it was happening. Despite the issue I was able to make more than a
> > > > dozen contacts, so the TX side appears to be working okay.
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> > > > Anybody have any ideas on how to track this down?
> > > >
> > > > 73, Dave NK0E
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11448. Re: ATS-2 (yes, 2) receive problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 12:56:54 UTC
From: steve_wg0at
Topic: 11422 Message: 11448

Airplane Mode does it for me. Since I use my iPhone for both spotting (when I've got cell coverage) and logging I need it close to my rig. ...Steve/wGOAT

http://www.flickr.com/photos/goathiker/9224118743/in/set-72157634514170493

--- In AT_Sprint@yahoogroups.com, "Dave" <dave@...> wrote:
>
> That's what I get for climbing a summit that has cell coverage... Next time I'll go someplace completely devoid of civilization!
>
> 73 Dave NK0E
>
> --- In AT_Sprint@yahoogroups.com, Johnny Matlock <jomatlock@> wrote:
> >
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> > just poking at you, Dave.
> > been there done that!
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> > Johnny AC0BQ
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> > On Jul 8, 2013, at 17:49, "digicircles" <dave@> wrote:
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> > > > I'll post test results later this evening. Tnx for the suggestion.
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> > > > 73, Dave NK0E
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> > > > --- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@> wrote:
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> > > > > EXACTLY. I had the very same problem. And Dale in WY pointed that out to
> > > > > me. My cell phone sits on my desk when home, it has a blue-tooth connection
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> > > > >
> > > > >
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> > > > > -----Original Message-----
> > > > > From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> > > > > Of cloud runner
> > > > > Sent: Monday, July 08, 2013 14:19
> > > > > To: AT_Sprint@yahoogroups.com
> > > > > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
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> > > > > WS0TA
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> > > > > ----- Original Message -----
> > > > > From: "Dale Putnam " <daleputnam@>
> > > > > To: "digicircles " <dave@>; <AT_Sprint@yahoogroups.com>
> > > > > Sent: Monday, July 08, 2013 1:43 PM
> > > > > Subject: Re: [AT_Sprint] ATS-2 (yes, 2) receive problem
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> > > > > Dale - WC7S
> > > > >
> > > > > -----Original Message-----
> > > > > From: digicircles <dave@>
> > > > > Date: Mon, 8 Jul 2013 18:10:54
> > > > > To: <AT_Sprint@yahoogroups.com>
> > > > > Subject: [AT_Sprint] ATS-2 (yes, 2) receive problem
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> > > > > 73, Dave NK0E
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11449. Re: [AT_Sprint] Capacitive Touch keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 13:02:55 UTC
From: Steven Weber
Topic: 11438 Message: 11449

That's one problem with touch switches. If made sensitive enough to be triggered when wearing gloves, they are prone to false triggering.

I'm pretty sure I can make the paddle inputs automatically detect if a mechanical paddle is used by checking the frequency of the pin oscillators. If it's real low at power up, there is a longish cable attached to a mechanical paddle.

A fair amount of experimentation is going to be required before a decision is made one way or the other...

Steve KD1JV

> Steve, One thing to think about, do these C-switches work when the user
> is wearing gloves? If they don't then it could be a problem for people
> wanting to use the rig in the winter. Can there be an option to build
> with standard mechanical switches please?
>
> Colin G8TMV
>
>
>

11450. RE: [AT_Sprint] Capacitive Touch keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 13:27:38 UTC
From: Dale Putnam
Topic: 11438 Message: 11450

Could it be the paddle input could be through a jack that switches off the cap paddle?

Have a great day,

--... ...--
Dale - WC7S in Wy

That's one problem with touch switches. If made sensitive enough to be

triggered when wearing gloves, they are prone to false triggering.

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mechanical paddle is used by checking the frequency of the pin oscillators.

If it's real low at power up, there is a longish cable attached to a

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A fair amount of experimentation is going to be required before a decision

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Steve KD1JV

> Steve, One thing to think about, do these C-switches work when the user

> is wearing gloves? If they don't then it could be a problem for people

> wanting to use the rig in the winter. Can there be an option to build

> with standard mechanical switches please?

>

> Colin G8TMV

>

>

>

11451. Re: [AT_Sprint] Capacitive Touch keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 13:39:24 UTC
From: Lee Hiers
Topic: 11438 Message: 11451

On Tue, Jul 9, 2013 at 9:02 AM, Steven Weber <steve.kd1jv@...> wrote:

> That's one problem with touch switches. If made sensitive enough to be
> triggered when wearing gloves, they are prone to false triggering.
>

I've got one of the touch keyer modules from www.cwtouchkeyer.com. I had thought about building it into the same case as my ATS3b, but one of the things that's held me back is that I wanted a way to disable it, as I often use the little ATS with a chunk of non-resonant wire just for listening...probably do this more than actually use the rig as a transceiver.

W0EA recently built one of these into an MTR and reported to me that when powering the module up, the module self-calibrates to "open". If the paddles are held closed when powering up, that effectively disables them, which would be great for my purposes. I haven't had a chance to play around with that yet, but maybe that's some info that would help somehow.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

11452. Re: [AT_Sprint] Capacitive Touch keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 13:59:22 UTC
From: Paul Mateer
Topic: 11438 Message: 11452

We have a product using these touch ics (the QT1012 series) and they are a PIA. It took a long time to come up with a decent target touch size and we still have issues with false triggering

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

11453. Re: ats4 how this can happen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 14:33:49 UTC
From: k8mdb
Topic: 11424 Message: 11453

What do you mean it "wants" to be on 17 meters? Did it used to work on 15?

You could have just had the VFO jump on you. I had my VFO jump on 40m took over an hour to get back down to 7mhz because there's no way to enter in a freq.

It's a known issue, but no solution beyond tuning back to the correct freq range.

--- In AT_Sprint@yahoogroups.com, "rustytrap2003" <rustytrap2003@...> wrote:
>
> my little rig decided it wants to be on 17 meters now it is built for 15 meters . yes I know 15 has been lousy of late but come on my ats 4 is thinking for its self now !!!! hi hi has any one else had this problem . jim KC0DD
>

11454. Re: [AT_Sprint] Re: ats4 how this can happen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 15:31:48 UTC
From: Lee Hiers
Topic: 11424 Message: 11454

I don't know about the ATS4, but on the '3b, the frequency resets to the QRP "watering hole" frequency at power-up. I've powered down and back up for QSY before. I'm guessing that doesn't work on the '4 based on your "known issue" comment, but don't know. Also, the '3b has Direct Frequency Entry via the paddle, although I never use that.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

On Tue, Jul 9, 2013 at 10:33 AM, k8mdb <k8mdb@...> wrote:

> You could have just had the VFO jump on you. I had my VFO jump on 40m took
> over an hour to get back down to 7mhz because there's no way to enter in a
> freq.
>

11455. RE: [AT_Sprint] Re: ats4 how this can happen

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 15:47:48 UTC
From: Mike Olbrisch
Topic: 11424 Message: 11455

Lee,

The ATS-4B, or at least MY ATS-4B does also have DFE. And I have found it useful. But perhaps part of the "known issue" also disables the DFE. I guess I won't know until it happens to me. Of course I hope I never have the opportunity to learn. <grin>.

6m is open, short skip this morning. Worked Seguin TX from El Paso minutes ago.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Lee Hiers
Sent: Tuesday, July 09, 2013 09:32
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: ats4 how this can happen

I don't know about the ATS4, but on the '3b, the frequency resets to the QRP "watering hole" frequency at power-up. I've powered down and back up for QSY before. I'm guessing that doesn't work on the '4 based on your "known issue" comment, but don't know. Also, the '3b has Direct Frequency Entry via the paddle, although I never use that.

73 de Lee
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Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

On Tue, Jul 9, 2013 at 10:33 AM, k8mdb <k8mdb@...> wrote:

You could have just had the VFO jump on you. I had my VFO jump on 40m took over an hour to get back down to 7mhz because there's no way to enter in a freq.

11456. Re: Capacitive Touch keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-09 21:04:31 UTC
From: Tim Goodrich
Topic: 11438 Message: 11456

You could always buy some capacitive thread and sew a short length into the fingertip on your glove. You can get it for a couple bux on ebay.

Tim

K6TW

11457. MTR Case arrived in France today...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-10 22:03:23 UTC
From: richard5vjd
Topic: 11457 Message: 11457

Hi Steve

I was expecting a long wait but the package arrived this morning - great work and a huge improvement on an Altoids tin.

Thanks for all you do...

72/3

Richard F5VJD

11458. FOX: SEASON OPENS

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-10 22:14:17 UTC
From: Dale Putnam
Topic: 11458 Message: 11458

The summer fox hunt season begins tomorrow, Thursday evening at 8 pm CDT (0100z Friday, August 12). Your foxes are Paul, K4FB in FL, and Todd, N9NE in WI. The hunt lasts for 90 minutes and takes place between 14.050 and 14.070. Both foxes will operate split (usually up 1 KHz or so) but may go to simplex later in the hunt. A description of the hunt and its rules are found on the QRP Fox Hunt website at http://www.qrpfoxhunt.org/

You are cordially invited to join in on the fun!

Have a great day,

--... ...--
Dale - WC7S in Wy

11459. Dick tracy hath arroven

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-11 17:24:57 UTC
From: Hank Greeb
Topic: 11459 Message: 11459

*When will there be a wrist AT-Sprint? With miniaturization going to extremes, is it "just around the corner?" :)**

See the Wristwatch **telephone at

http://mail-direct.store.rakuten.com/p/unlocked-svp-g13-gsm-bluetooth-multimedia-watch-cell-phone-silver/249623299.html

**if the above gets truncated, try this itty **bitty url

http://goo.gl/pbhLJ

Back in the 50's or so when **Dick Tracy was **in his heyday, this would be really s**cience fiction.

**72/73 de n8xx Hg
QRP >99.44% of thetime
*

11460. Re: [AT_Sprint] Dick tracy hath arroven

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-12 00:02:37 UTC
From: Steven Weber
Topic: 11459 Message: 11460

I'm waiting for the Star Trek communicator badge.

Back in the 50's or so when Dick Tracy was in his heyday, this would be really science fiction.

72/73 de n8xx Hg
QRP >99.44% of the time

11461. Re: [AT_Sprint] Dick tracy hath arroven

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-12 00:57:21 UTC
From: Rich
Topic: 11459 Message: 11461

Not "Badge", but as start:
http://www.geek.com/mobile/nokias-star-trek-communicator-phone-begs-to-be-real-1360501/

Rich
NU6T

On 7/11/2013 5:02 PM, Steven Weber wrote:
>
> I'm waiting for the Star Trek communicator badge.
>
> *B**ack in the 50's or so when **Dick Tracy was **in his heyday, this
> would be really s**cience fiction.
>
> **72/73 de n8xx Hg
> QRP >99.44% of thetime*
>

11462. Re: [AT_Sprint] Dick tracy hath arroven

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-12 01:57:04 UTC
From: Lew Paceley
Topic: 11459 Message: 11462

"twee-tweet" "Energize"

+1

Cheers,
Lew
K7GO

On Thu, Jul 11, 2013 at 6:57 PM, Rich <rehill@...> wrote:

>
>
> Not "Badge", but as start:
>
> http://www.geek.com/mobile/nokias-star-trek-communicator-phone-begs-to-be-real-1360501/
>
> Rich
> NU6T
>
> On 7/11/2013 5:02 PM, Steven Weber wrote:
>
>
>
> I'm waiting for the Star Trek communicator badge.
>
> *B**ack in the 50's or so when **Dick Tracy was **in his heyday, this
> would be really s**cience fiction.
>
> **72/73 de n8xx Hg
> QRP >99.44% of the time*
>
>
>
>
>
>

11463. Re: [AT_Sprint] Dick tracy hath arroven

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-12 03:24:08 UTC
From: Gilbert Gibbs
Topic: 11459 Message: 11463

To add to the confusion, "Whatever happened to the 'Get Smart'" shoe phone? That wrist monstercellphone would last about a day under most conditions where I live, and a "family pooch" would think it's a nice chew toy!

When I can dial up my HF rig from my yard on the little cellphone I use now, and even access the local area repeaters, I might go the extra bucks and headaches in figuring out this digital mess.

73's, nice grin overall

Gil WA5YKK

On 7/11/2013 8:57 PM, Lew Paceley wrote:
> "twee-tweet" "Energize"
>
> +1
>
> Cheers,
> *Lew*
> K7GO
>
>
>
> On Thu, Jul 11, 2013 at 6:57 PM, Rich <rehill@...
> <mailto:rehill@...>> wrote:
>
>
>
> Not "Badge", but as start:
> http://www.geek.com/mobile/nokias-star-trek-communicator-phone-begs-to-be-real-1360501/
>
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>
> On 7/11/2013 5:02 PM, Steven Weber wrote:
>>
>> I'm waiting for the Star Trek communicator badge.
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>> this would be really s**cience fiction.
>>
>> **72/73 de n8xx Hg
>> QRP >99.44% of thetime*
>
>

>
>
>

11464. Re: [AT_Sprint] Dick tracy hath arroven

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-12 14:26:09 UTC
From: Kurt Savegnago
Topic: 11459 Message: 11464

I got a similar device and am not impressed by it. Reception is dicey except in close to the towers. The camera in the one I have
is really low resolution. All-in-all, stick with your usual cell phone. Oh, the speaker is rinky-dink and a BT headset is necessary with the
one I have to hear the party on the opposite end. It actually does pair with my 2012 Enclave and will work if close to the tower.
Could be used say in town with a kid who's had a tendency to lose a regular phone. Good for, " Hey Ma, you can pick me up from the Y now." Kurt KC9LDH :-)

From: Hank Greeb <n8xx@...>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, July 11, 2013 12:24 PM
Subject: [AT_Sprint] Dick tracy hath arroven

When will there be a wrist AT-Sprint? With miniaturization going to extremes, is it "just around the corner?" :)

See the Wristwatch telephone at

http://mail-direct.store.rakuten.com/p/unlocked-svp-g13-gsm-bluetooth-multimedia-watch-cell-phone-silver/249623299.html

if the above gets truncated, try this itty bitty url

http://goo.gl/pbhLJ

Back in the 50's or so when Dick Tracy was in his heyday, this would be really science fiction.

72/73 de n8xx Hg
QRP >99.44% of thetime

11465. RE: [AT_Sprint] MTR cases for 1st run kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-12 15:34:06 UTC
From: Hinds, Don
Topic: 11372 Message: 11465

Yay!!! I got home from a backpacking trip to New Mexico and saw the announcement about the cases being available and ordered one right away. Confirmation from Paypal last night tells me I have one with my name on it.

Whoopee!

73,
Don
WD4ON

11466. Your Speed CW

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-14 13:41:59 UTC
From: Dale Putnam
Topic: 11466 Message: 11466

NAQCC Rocky Mtn Regional/Continental QRS net (RMR)
Tuesday afternoons 3:00 PM Mountain Time, which is Tuesday 2100 UTC, on
14062.5 kHz.
AND
Thursday afternoons 3:00 PM Mountain Time, which is Thursday 2100 UTC,
on 14062.5 kHz.
Main NCS - Dale WC7S (in WY)

I'm usually ready by 2:45 MT or 2045z
And everyone gets to chat for a few minutes.
AT YOUR SPEED... so call in with your full call,
and I will match you.

The props have been pretty poor, so if you have a better time to suggest,
please do so.

C U and Thank you

Have a great day,

--... ...--
Dale - WC7S in Wy

11467. NAQCC Sprint Wednesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-14 22:06:19 UTC
From: NAQCC
Topic: 2848 Message: 11467

NAQCC Sprint Wednesday night!

Our July sprint is this coming Wednesday evening local time (July 17, EDT - 8:30-10:30PM, CDT - 7:30-9:30PM, MDT - 6:30-8:30PM, PDT - 5:30-7:30PM), which translates as Thursday July 18, 0030Z to 0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201307.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX for 1st, 2nd and 3rd place finishers (New!). A Certificate for top score in the GAIN antenna category.

Prizes: Too many to list!! - check out the prize page on our website.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you've been hesitant to join in our sprints because you hear other sprints running at breakneck speeds, have no fear. Our sprints are geared to the newcomer to CW and/or contesting. Virtually everyone including the many veteran contesters who regularly enter our sprints will slow down to YOUR speed to help you make your contacts.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6710+ members in: All 50 States - 9 VE Provinces - 94 Countries. Sign up on the NAQCC website today (http://naqcc.info/) and receive a handsome certificate, with your membership number on it, which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

11468. M3WCK Case arrived

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-14 18:55:56 UTC
From: C WEAVING
Topic: 11372 Message: 11468

Hi Steve.

My MTR case arrived in the UK .

Many thanks

Colin M3WCK

11469. Finally caught up.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-15 17:29:34 UTC
From: Mike Olbrisch
Topic: 11469 Message: 11469

Morning all.

Well, I finally got all caught up on the trip to Germany. QSL cards are on their way, LoTW logs have been uploaded. And I finally had time to go through the photos and write up the summit activations.

The 3 Germany clubs I visited (X-37 Meiningen, B-14 Schweinfurt and B-10 Bad Neustadt) were particularly impressed with the ATS-4B and micro-key. I could have sold the station for about $400 to $500 a few times over. Along with the 2 ounce EFHWA, fiberglass fishing pole and KI6J tuner, it was a nice sub-1kg station.

Steve, you really should think about re-kitting the ATS4 too, when you get a chance.

Rather than send a large text file to the group, I just did a .PDF, and posted it with my QRZ profile. Anyone who wants to see it can have a look. You can get it by just going to my QRZ profile: www.qrz.com/db/kd9kc/

There is a link is in yellow right below my QSL card photo. Just click on the link that says

"SOTA report from DL/KD9KC - 6 through 24 June 2013 (CLICK)".

And it will open a .PDF with the story and photos.

Right below that is my weather station display. Yes - we did get some rain, and last night 1/4 of an inch too. 2.18" so far this year. That is a lot for us.

Anyone going over to Germany, you will see there are some lovely summits in this report. A few were especially nice. I wish I could have stayed longer and done more.

Enjoy.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

11470. Which Kit Should I Build First?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-18 18:06:35 UTC
From: rsvp2al
Topic: 11470 Message: 11470

Hi,

I am fortunate to have a few qrp kits and I want to first build the one I am most likely to complete successfully. I have limited experience with kit building and the only surface mount kit I have built is a 40m Softrock II, which worked with no probs. So which do you think I am most likely to complete successfully? : Norcal 20, Norcal 2030, MTR Mountain Topper, original Sprint III.

Thanks, 73, Al, N6ZI

11471. RE: [AT_Sprint] Which Kit Should I Build First?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-18 18:28:27 UTC
From: Dale Putnam
Topic: 11470 Message: 11471

The original III would be my
choice...
Good Luck!
Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: rsvp2al@...
Date: Thu, 18 Jul 2013 18:06:35 +0000
Subject: [AT_Sprint] Which Kit Should I Build First?

Hi,

I am fortunate to have a few qrp kits and I want to first build the one I am most likely to complete successfully. I have limited experience with kit building and the only surface mount kit I have built is a 40m Softrock II, which worked with no probs. So which do you think I am most likely to complete successfully? : Norcal 20, Norcal 2030, MTR Mountain Topper, original Sprint III.

Thanks, 73, Al, N6ZI

11472. MTR2 ??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-18 22:22:09 UTC
From: Dale Putnam
Topic: 11472 Message: 11472

This may have been asked and answered.. but I missed it if it did.
With the MTR2, freq selection accomplished with R3 and R4, or BS1 and BS2.
With the higher band in BS1.. as 20.. desire is to have 30m be BS2.
Any resistor into BS2.. from the chart.. brings the radio to 40m.. left blank
the radio goes to 80m...
What needs to be done?

Have a great day,

--... ...--
Dale - WC7S in Wy

11473. Re: [AT_Sprint] MTR2 ??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-19 01:56:08 UTC
From: Steven Weber
Topic: 11472 Message: 11473

You need to reduce the value of the resistor a little. 18K seems to be the best value, which can be achived by paralleling the extra 100K across the 22K.

Steve

This may have been asked and answered.. but I missed it if it did.
With the MTR2, freq selection accomplished with R3 and R4, or BS1 and BS2.
With the higher band in BS1.. as 20.. desire is to have 30m be BS2.
Any resistor into BS2.. from the chart.. brings the radio to 40m.. left blank
the radio goes to 80m...
What needs to be done?

Have a great day,

--... ...-- Dale - WC7S in Wy

11474. RE: [AT_Sprint] MTR2 ??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-19 01:57:33 UTC
From: Dale Putnam
Topic: 11472 Message: 11474

thank you Steve.
I failed to make a note of that when it was mentioned before.
Thanks,

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Thu, 18 Jul 2013 21:56:08 -0400
Subject: Re: [AT_Sprint] MTR2 ??

You need to reduce the value of the resistor a
little. 18K seems to be the best value, which can be achived by paralleling the
extra 100K across the 22K.

Steve

This may have been asked and answered.. but I missed it if
it did.
With the MTR2, freq selection accomplished with R3 and R4, or BS1
and BS2.
With the higher band in BS1.. as 20.. desire is to have 30m be
BS2.
Any resistor into BS2.. from the chart.. brings the radio to 40m..
left blank
the radio goes to 80m...
What needs to be done?

Have
a great day,

--... ...-- Dale - WC7S in
Wy

11475. MTR #91 Complete!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-19 04:13:51 UTC
From: luke_308
Topic: 11475 Message: 11475

Just finished up my MTR build today. It was my first SMT project and it was challenging, but fun! Only problems I ran into along the way were a misplaced capacitor, which thankfully our junk box at work replaced, and a solder bridge on the key plug wires (my very last solder point!). For soldering I used a Weller temperature controlled iron with a very fine tip, a set of fine tweezers, and a jewelers loupe to check my work. It took me quite a while from start to finish as I worked in 5 or 10 minutes intervals in the evenings or weekends between family and work responsibilities. I don't have an oscilloscope so I skipped quite a bit of the alignment procedures but everything seems to work 100%. For output I seem to be getting roughly 3-4 watts on 20m/40m using a fresh 9v alkaline battery. I did add a locking power switch between the antenna connector and the power plug. It is DigiKey part M2011LL1W01-ND ($5.17) if anyone else would like to do something similar. My regards to KD1JV for producing such a great little radio.

Luke
KD0FIN

11476. Re: MTR #91 Complete!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-19 04:15:32 UTC
From: luke_308
Topic: 11475 Message: 11476

Pictures of the completed MTR can be found here:
http://groups.yahoo.com/group/AT_Sprint/photos/album/1146712675/pic/list

11477. Re: [AT_Sprint] MTR2 ??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-19 09:46:46 UTC
From: Barry N1EU
Topic: 11472 Message: 11477

Has the online documentation been updated to indicate that? Or is there an errata compiled somewhere?

Thanks & 73,
Barry N1EU

On Fri, Jul 19, 2013 at 1:56 AM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> **
> You need to reduce the value of the resistor a little. 18K seems to be the
> best value, which can be achived by paralleling the extra 100K across the
> 22K.
>
> Steve
>
>
> **This may have been asked and answered.. but I missed it if it did.
> With the MTR2, freq selection accomplished with R3 and R4, or BS1 and BS2.
> With the higher band in BS1.. as 20.. desire is to have 30m be BS2.
> Any resistor into BS2.. from the chart.. brings the radio to 40m.. left
> blank
> the radio goes to 80m...
> What needs to be done?
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
>

11478. ats freq. jump

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-19 15:06:02 UTC
From: rustytrap2003
Topic: 11478 Message: 11478

thanks one &all for your input. going to 999 a few times got me back to 15 meters just fine and it stays there for now. I probably did something to make it go bonkers any how hi hi .am good at that again THANKS JIM KC0DD

11479. Li-poly batteries

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-19 20:20:30 UTC
From: Keith Hamilton
Topic: 11479 Message: 11479

Is anyone using Li-Poly batteries with their MTR or ATS? The one I bought is a 500mAh "Sky Lipo" battery. I have not used it much yet so I'm not sure how it will last.

I have the proper charger and a charging bag to be safe. I also store the battery in an Altoids tin when not in use.

One thing for sure you can't beat the size or weight. It is REALLY small! And at 11.2 to 11.4 volts fully charged it is a good match for the MTR. I need to find out how low I should discharge this battery so I don't ruin it.

Highly recommended! Comments?

11480. Re: [AT_Sprint] Li-poly batteries

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-19 20:32:10 UTC
From: Steve Galchutt
Topic: 11479 Message: 11480

Yes Works FB! Steve/wGOAT
http://flic.kr/p/f47294
On Jul 19, 2013, at 2:20 PM, "Keith Hamilton" <tuner@...> wrote:

> Is anyone using Li-Poly batteries with their MTR or ATS? The one I bought is a 500mAh "Sky Lipo" battery. I have not used it much yet so I'm not sure how it will last.
>
> I have the proper charger and a charging bag to be safe. I also store the battery in an Altoids tin when not in use.
>
> One thing for sure you can't beat the size or weight. It is REALLY small! And at 11.2 to 11.4 volts fully charged it is a good match for the MTR. I need to find out how low I should discharge this battery so I don't ruin it.
>
> Highly recommended! Comments?
>
>

11481. Re: [AT_Sprint] Li-poly batteries

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-19 20:32:38 UTC
From: Hank Greeb
Topic: 11479 Message: 11481

Keith,

Best bet is to look up the manufacturer's specs on minimum voltage for discharge. Many battery packs have internal shut off when that voltage is reached. If not, to be sure, it might be appropriate to build a fail-safe, or at least a voltage monitor which alerts you when you get near that end point. Nominal voltage is 3.7 volts per cell, but fully charged can be 4.2 volts per cell, so you pack may exceed 12 volts when fully charged. The discharge voltage typically drops to 3.7 volts and stays relatively flat for most of the discharge cycle. Most manufacturers say between 2.7 and 3.0 volts per cell is the critical voltage where you're NOT supposed to discharge any further.

Hope this helps.

72/73 de n8xx Hg
QRP >99.44% of the time

On 7/19/2013 4:20 PM, Keith Hamilton wrote:
> Is anyone using Li-Poly batteries with their MTR or ATS? The one I bought is a 500mAh "Sky Lipo" battery. I have not used it much yet so I'm not sure how it will last.
>
> I have the proper charger and a charging bag to be safe. I also store the battery in an Altoids tin when not in use.
>
> One thing for sure you can't beat the size or weight. It is REALLY small! And at 11.2 to 11.4 volts fully charged it is a good match for the MTR. I need to find out how low I should discharge this battery so I don't ruin it.
>
> Highly recommended! Comments?

11482. Re: [AT_Sprint] Li-poly batteries

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-19 22:02:11 UTC
From: cloud runner
Topic: 11479 Message: 11482

Yes, that is what I have settled on after 150 SOTA peaks. It is good for perhaps four hours operating the MTR.

Have fun, 73, Fred - KT5X

aka WS0TA

Is anyone using Li-Poly batteries with their MTR or ATS? The one I bought is a 500mAh "Sky Lipo" battery. I have not used it much yet so I'm not sure how it will last.

I have the proper charger and a charging bag to be safe. I also store the battery in an Altoids tin when not in use.

One thing for sure you can't beat the size or weight. It is REALLY small! And at 11.2 to 11.4 volts fully charged it is a good match for the MTR. I need to find out how low I should discharge this battery so I don't ruin it.

Highly recommended! Comments?

11483. Re: [AT_Sprint] Li-poly batteries

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-20 03:05:08 UTC
From: Scott Zastoupil
Topic: 11479 Message: 11483

3v /cell min discharge. Don't store at minimum voltage or they will start to puff.

Long term storage at 50% charge. I only do it over winter months if I happen to remember.

Charge at 1C rate max.

Sent from Yahoo! Mail on Android

11484. RE: Li-poly batteries

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-20 16:25:53 UTC
From: Don McBride
Topic: 11479 Message: 11484

Keith,

FWIW, I've had good luck with CHEAP Chinese 1.2 Ah LiPo pack that comes with a dedicated charger (which really appears to be the same charger as that supplied with my CHEAP Chinese 6.8 Ah pack).

The 1.2 Ah rating seems a lot more accurate than the highly optimistic 6.8 of the bigger unit.

Small, very light-weight 1.2 Ah seems to be a good match for MTR, and with PCB "Poor Man's Paddle", it all makes for a very light Spartan Sprint station. And yet, the 1.2 Ah appears to outlast the old decrepit operator.

To be on the safe side, I inserted two diodes inline to cut fully-charged voltage to MTR. Can't risk Steve Weber's engineering genius, you know.

```
... 72/73,
... Don McBride, K3RLL   http://www.qsl.net/k3rll/
    K1 #2613 | KX1 #2396  |  K2 #1569    KX3 #4565
    PB #187 | NAQCC #1905 FC7 | FISTS #13504cc 2064
    FP #1843 | QRPARCI #3881  | SKCC #3133 c337
```

****

Is anyone using Li-Poly batteries with their MTR or ATS? The one I bought is a 500mAh "Sky Lipo" battery. I have not used it much ...

11485. Re: [AT_Sprint] RE: Li-poly batteries

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-20 17:57:34 UTC
From: Keith Hamilton
Topic: 11479 Message: 11485

What size diodes should I use??

On Jul 20, 2013, at 12:25 PM, "Don McBride" <McBride_D@...> wrote:

Keith,

FWIW, I've had good luck with CHEAP Chinese 1.2 Ah LiPo pack that comes with a dedicated charger (which really appears to be the same charger as that supplied with my CHEAP Chinese 6.8 Ah pack).

The 1.2 Ah rating seems a lot more accurate than the highly optimistic 6.8 of the bigger unit.

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K1 #2613 | KX1 #2396 | K2 #1569 KX3 #4565
PB #187 | NAQCC #1905 FC7 | FISTS #13504cc 2064
FP #1843 | QRPARCI #3881 | SKCC #3133 c337
****
Is anyone using Li-Poly batteries with their MTR or ATS? The one I bought is a 500mAh "Sky Lipo" battery. I have not used it much ...

11486. RE: [AT_Sprint] Li-poly batteries

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-21 13:58:20 UTC
From: Mike Olbrisch
Topic: 11479 Message: 11486

Good morning.

I haven't really seen anyone directly answer your question, so I thought I would give it a try.

I have a few of those batteries. I got a 500, 800 and 1300 MAH unit. I have really only used the 800 MAH so far, and have found that it is plenty for how I operate. Since I have not used it to the point that I would call dead, I am not sure just how long it will last. And of course it is YMMV, as your radio and operating habits will be different than mine.

As for how far to drain it - there are a few "opinions". Because they are so cheap, I am not truly worried about mine. However, at some point it may become a safety issue when discharged too deeply.

One of the better web sites for learning about batteries is called BATTERY UNIVERSITY.

http://batteryuniversity.com/

Right there on the front page there is a section called MOST POPULAR ARTICLES. There are currently 3 on Li-Ion and Lithium based battery chemistry. You should find plenty of interesting data there.

One suggestion. I have a few different battery types - and sometimes it gets hard to remember the max discharge levels. So I write it in marker on the battery.

So far Sky Lipo seems to be a good brand. Good Luck.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Keith Hamilton
Sent: Friday, July 19, 2013 14:21
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Li-poly batteries

Is anyone using Li-Poly batteries with their MTR or ATS? The one I bought is a 500mAh "Sky Lipo" battery. I have not used it much yet so I'm not sure how it will last.

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Highly recommended! Comments?

Yahoo! Groups Links

11487. Re: Li-poly batteries

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-21 14:07:39 UTC
From: PHILIP GRAITCER
Topic: 11479 Message: 11487

I've been purchasing my LIPO batteries from Hobby King. I also bought a charger for around $30 from them that handles all kinds of batteries, besides the special balancing needed for the multicell 1500mAh batteries 3 cell LiPO batteries I use for mybAT series rigs. Fully charged they are around 12.6 volts. I use two diodes in line and that knocks the voltage down to about 11.4. They also have a neat in line battery monitor made by Turginy.

I have no connection with Hobby King, they seem to have a good selection at reasonable price and ship fairly quickly, especially if you order from the US warehouse. Lots of battery types and sizes to chose from. They work great with my MTRs and ATS3. Their batteries do come with an unusual connector, but I leave them on and just make up adapters.

Phil, W3HZZ

Sent from my iPad, excuse the typos.

11488. FS ATS II

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-23 03:56:04 UTC
From: Jim Crooke
Topic: 11488 Message: 11488

ATS II in great shape for sale. $171

Jim, K0ESE

11489. QBSA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-23 21:58:49 UTC
From: Jackie Russell
Topic: 2467 Message: 11489

Does anyone happen to have the drilling template for the QBSA? The manual says one is included on the CD but I don't have the cd and I want to put it in a case.

Any help would be appreciated.

Jackie
AC4EH

11490. MTR power supply?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-23 22:17:10 UTC
From: Bob Cutter
Topic: 11490 Message: 11490

I just fired mine up using a 9v battery in a case with a switch, borrowed from my Arduino board, and wondered what others are using.

72, Bob KIØG

11491. MTR for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-23 22:21:44 UTC
From: Jim Crooke
Topic: 9363 Message: 11491

OK guys and gals, you know how life gets in the way of fun sometimes? This summer is one of those times. I was one of the lucky ones to get a MTR from the second run. Unfortunately, it is still in the priority mail package from Steve, unopened. I had planned on building it and using it this summer while off from teaching, but the other projects the school district and the xyl had for me haven't left much time to do radio. Still haven't even had the boat out to go fishing yet! I go back to school in a couple of weeks and I know I will not get to it for a while. Knowing that there are others that want the rig now makes me feel a bit guilty for hoarding it, so I will sell it. Now comes the question of how the process will go. Sometimes I've been lucky being the first to respond on an item and then there have been a lot of times when someone beat me to the keyboard. I plan on giving people a chance at it (if there is even any interest). I'll keep track of calls from now until the morning and then draw a random call and give that person first shot at it. If they decide against it, I'll draw again. Now for the price. I am a firm believer in capitalism and letting the market dictate the price. I have no problem with people charging more than what they paid for an item if someone wants it that bad. In this case, though, I paid Steve $126 for it and that is what I'm asking. If no one wants it at that price, I'll put it on eBay and sell it for more. J

I have a another QRP rig that I may sell for the same time constraints as above if anybody is interested. It is an HB1B from TenTec (YouKits).

At some point, I will regret this, but let the fun begin!

73, Jim K0ESE

11492. Re: [AT_Sprint] MTR for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-23 23:27:35 UTC
From: Tiana Hall
Topic: 9363 Message: 11492

I take it for 126
Tiana ke5odx

On Jul 23, 2013, at 4:21 PM, "Jim Crooke" <crooke@...> wrote:

> OK guys and gals, you know how life gets in the way of fun sometimes? This summer is one of those times. I was one of the lucky ones to get a MTR from the second run. Unfortunately, it is still in the priority mail package from Steve, unopened. I had planned on building it and using it this summer while off from teaching, but the other projects the school district and the xyl had for me haven't left much time to do radio. Still haven't even had the boat out to go fishing yet! I go back to school in a couple of weeks and I know I will not get to it for a while. Knowing that there are others that want the rig now makes me feel a bit guilty for hoarding it, so I will sell it. Now comes the question of how the process will go. Sometimes I've been lucky being the first to respond on an item and then there have been a lot of times when someone beat me to the keyboard. I plan on giving people a chance at it (if there is even any interest). I'll keep track of calls from now until the morning and then draw a random call and give that person first shot at it. If they decide against it, I'll draw again. Now for the price. I am a firm believer in capitalism and letting the market dictate the price. I have no problem with people charging more than what they paid for an item if someone wants it that bad. In this case, though, I paid Steve $126 for it and that is what I'm asking. If no one wants it at that price, I'll put it on eBay and sell it for more. J
>
>
>
> I have a another QRP rig that I may sell for the same time constraints as above if anybody is interested. It is an HB1B from TenTec (YouKits).
>
>
>
> At some point, I will regret this, but let the fun begin!
>
>
>
> 73, Jim K0ESE
>
>

11493. Re: [AT_Sprint] MTR for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-23 23:38:01 UTC
From: Keith Hamilton
Topic: 9363 Message: 11493

I would like it but I already have one. To be fair I think it should go to someone who doesn't have one yet.
73 Keith N8CEP

On Jul 23, 2013, at 6:21 PM, "Jim Crooke" <crooke@...> wrote:

OK guys and gals, you know how life gets in the way of fun sometimes? This summer is one of those times. I was one of the lucky ones to get a MTR from the second run. Unfortunately, it is still in the priority mail package from Steve, unopened. I had planned on building it and using it this summer while off from teaching, but the other projects the school district and the xyl had for me haven’t left much time to do radio. Still haven’t even had the boat out to go fishing yet! I go back to school in a couple of weeks and I know I will not get to it for a while. Knowing that there are others that want the rig now makes me feel a bit guilty for hoarding it, so I will sell it. Now comes the question of how the process will go. Sometimes I’ve been lucky being the first to respond on an item and then there have been a lot of times when someone beat me to the keyboard. I plan on giving people a chance at it (if there is even any interest). I’ll keep track of calls from now until the morning and then draw a random call and give that person first shot at it. If they decide against it, I’ll draw again. Now for the price. I am a firm believer in capitalism and letting the market dictate the price. I have no problem with people charging more than what they paid for an item if someone wants it that bad. In this case, though, I paid Steve $126 for it and that is what I’m asking. If no one wants it at that price, I’ll put it on eBay and sell it for more. J

I have a another QRP rig that I may sell for the same time constraints as above if anybody is interested. It is an HB1B from TenTec (YouKits).

At some point, I will regret this, but let the fun begin!

73, Jim K0ESE

11494. Re: [AT_Sprint] MTR power supply?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-23 23:52:09 UTC
From: mbhayden
Topic: 11490 Message: 11494

Hi Bob,
I use a 1500 mah li-poly pack in it's own altoids tin with two binding posts. it runs my MTR forever.
Mike AK3F

On Tue, Jul 23, 2013 at 6:17 PM, Bob Cutter <ki0g@...> wrote:

> **
>
>
> I just fired mine up using a 9v battery in a case with a switch, borrowed
> from my Arduino board, and wondered what others are using.
>
> 72, Bob KIØG
>
>

11495. Re: [AT_Sprint] MTR for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 00:05:52 UTC
From: ckwishmeier@...
Topic: 9363 Message: 11495

Jim,

Put me on the list for $126. I really like Steve's kits. My favorite radio is my PFR-3A. Let's see if I win your MTR. Thanks for the opportunity.

Keith
WA9S

-----Original Message-----
From: Jim Crooke <crooke@crooke.us>
To: at_sprint <at_sprint@yahoogroups.com>
Sent: Tue, Jul 23, 2013 6:22 pm
Subject: [AT_Sprint] MTR for sale

OK guys and gals, you know how life gets in the way of fun sometimes? This summer is one of those times. I was one of the lucky ones to get a MTR from the second run. Unfortunately, it is still in the priority mail package from Steve, unopened. I had planned on building it and using it this summer while off from teaching, but the other projects the school district and the xyl had for me haven't left much time to do radio. Still haven't even had the boat out to go fishing yet! I go back to school in a couple of weeks and I know I will not get to it for a while. Knowing that there are others that want the rig now makes me feel a bit guilty for hoarding it, so I will sell it. Now comes the question of how the process will go. Sometimes I've been lucky being the first to respond on an item and then there have been a lot of times when someone beat me to t he keyboard. I plan on giving people a chance at it (if there is even any interest). I'll keep track of calls from now until the morning and then draw a random call and give that person first shot at it. If they decide against it, I'll draw again. Now for the price. I am a firm believer in capitalism and letting the market dictate the price. I have no problem with people charging more than what they paid for an item if someone wants it that bad. In this case, though, I paid Steve $126 for it and that is what I'm asking. If no one wants it at that price, I'll put it on eBay and sell it for more. J

I have a another QRP rig that I may sell for the same time constraints as above if anybody is interested. It is an HB1B from TenTec (YouKits).

At some point, I will regret this, but let the fun begin!

73, Jim K0ESE

11496. Re: [AT_Sprint] FS ATS II

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-23 04:04:14 UTC
From: Allen Harvie
Topic: 11488 Message: 11496

Hi

Interested
Will you ship to Australia ?

Allen
VK3HRA

Allen

Sent from my fruit phone.

On 23/07/2013, at 1:56 PM, Jim Crooke <crooke@...> wrote:

> ATS II in great shape for sale. $171
>
> Jim, K0ESE
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>

11497. Re: [AT_Sprint] FS ATS II

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 01:52:43 UTC
From: Jim Crooke
Topic: 11488 Message: 11497

I'll put your call in the hat and will ship if I draw your call and you pay the cost.

73, Jim

Sent from my iPad

On Jul 22, 2013, at 11:04 PM, Allen Harvie <arharvie@...> wrote:

> Hi
>
> Interested
> Will you ship to Australia ?
>
> Allen
> VK3HRA
>
> Allen
>
> Sent from my fruit phone.
>
> On 23/07/2013, at 1:56 PM, Jim Crooke <crooke@...> wrote:
>
> > ATS II in great shape for sale. $171
> >
> > Jim, K0ESE
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
> >
> >
>

11498. Re: [AT_Sprint] MTR power supply?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 02:29:15 UTC
From: Lee Hiers
Topic: 11490 Message: 11498

Either a small LiPo or a 9v lithium primary battery - runs for hours!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

On Tue, Jul 23, 2013 at 7:52 PM, mbhayden <mbhayden@...m> wrote:

> **
>
>
> Hi Bob,
> I use a 1500 mah li-poly pack in it's own altoids tin with two binding
> posts. it runs my MTR forever.
> Mike AK3F
>
>
> On Tue, Jul 23, 2013 at 6:17 PM, Bob Cutter <ki0g@...> wrote:
>
>> **
>>
>>
>> I just fired mine up using a 9v battery in a case with a switch, borrowed
>> from my Arduino board, and wondered what others are using.
>>
>> 72, Bob KIØG
>>
>
>
>

11499. Re: [AT_Sprint] FS ATS II

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 07:15:32 UTC
From: Allen Harvie
Topic: 11488 Message: 11499

I'll pay freight but would be interested in the MTR for same money.

Not greedy one or the other but idea of building it myself is desirable do MTR over ATS.

Hope the hat gods smile on me

Allen

Sent from my fruit phone.

On 24/07/2013, at 11:52 AM, Jim Crooke <crooke@...> wrote:

>
>
> I'll put your call in the hat and will ship if I draw your call and you pay the cost.
>
> 73, Jim
>
> Sent from my iPad
>
> On Jul 22, 2013, at 11:04 PM, Allen Harvie <arharvie@...> wrote:
>
>> Hi
>>
>> Interested
>> Will you ship to Australia ?
>>
>> Allen
>> VK3HRA
>>
>> Allen
>>
>> Sent from my fruit phone.
>>
>> On 23/07/2013, at 1:56 PM, Jim Crooke <crooke@...> wrote:
>>
>> > ATS II in great shape for sale. $171
>> >
>> > Jim, K0ESE
>> >
>> >
>> >
>> > ----------
>> >
>> > Yahoo! Groups Links
>> >

>> >
>> >
>
>
>

11500. Re: [AT_Sprint] FS ATS II

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 07:20:04 UTC
From: Allen Harvie
Topic: 11488 Message: 11500

Sorry not intending to reply to list.
Using phone on train on way home at end of day and excited at the chance for one of these devices

Allen

Sent from my fruit phone.

On 24/07/2013, at 5:15 PM, Allen Harvie <arharvie@gmail.com> wrote:

> I'll pay freight but would be interested in the MTR for same money.
>
> Not greedy one or the other but idea of building it myself is desirable do MTR over ATS.
>
> Hope the hat gods smile on me
>
>
> Allen
>
> Sent from my fruit phone.
>
> On 24/07/2013, at 11:52 AM, Jim Crooke <crooke@...> wrote:
>
>>
>>
>> I'll put your call in the hat and will ship if I draw your call and you pay the cost.
>>
>> 73, Jim
>>
>> Sent from my iPad
>>
>> On Jul 22, 2013, at 11:04 PM, Allen Harvie <arharvie@...> wrote:
>>
>>> Hi
>>>
>>> Interested
>>> Will you ship to Australia ?
>>>
>>> Allen
>>> VK3HRA
>>>
>>> Allen
>>>
>>> Sent from my fruit phone.
>>>
>>> On 23/07/2013, at 1:56 PM, Jim Crooke <crooke@crooke.us> wrote:

```
>>>
>>> > ATS II in great shape for sale. $171
>>> >
>>> > Jim, K0ESE
>>> >
>>> >
>>> >
>>> > ------------------------------------
>>> >
>>> > Yahoo! Groups Links
>>> >
>>> >
>>> >
>>
>>
>>
```

11501. Re: QBSA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 16:01:30 UTC
From: k6jf_radio
Topic: 2467 Message: 11501

Jackie,

Send me an email and I will send you the file. My email is good on QRZ.com.

Jim K6JF

--- In AT_Sprint@yahoogroups.com, "Jackie Russell" <jackier1061@...> wrote:
>
> Does anyone happen to have the drilling template for the QBSA? The manual says one is included on the CD but I don't have the cd and I want to put it in a case.
>
> Any help would be appreciated.
>
> Jackie
> AC4EH
>

11502. Re: MTR for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 16:29:04 UTC
From: wa9jst
Topic: 9363 Message: 11502

Jim,

Please put me on your list for the MTR.
I appreciate how you are handling this hot item.
73,
Ralph
K5RWP

--- In AT_Sprint@yahoogroups.com, "Jim Crooke" <crooke@...> wrote:
>
> OK guys and gals, you know how life gets in the way of fun sometimes? This
> summer is one of those times. I was one of the lucky ones to get a MTR from
> the second run. Unfortunately, it is still in the priority mail package
> from Steve, unopened. I had planned on building it and using it this summer
> while off from teaching, but the other projects the school district and the
> xyl had for me haven't left much time to do radio. Still haven't even had
> the boat out to go fishing yet! I go back to school in a couple of weeks
> and I know I will not get to it for a while. Knowing that there are others
> that want the rig now makes me feel a bit guilty for hoarding it, so I will
> sell it. Now comes the question of how the process will go. Sometimes I've
> been lucky being the first to respond on an item and then there have been a
> lot of times when someone beat me to the keyboard. I plan on giving people
> a chance at it (if there is even any interest). I'll keep track of calls
> from now until the morning and then draw a random call and give that person
> first shot at it. If they decide against it, I'll draw again. Now for the
> price. I am a firm believer in capitalism and letting the market dictate
> the price. I have no problem with people charging more than what they paid
> for an item if someone wants it that bad. In this case, though, I paid
> Steve $126 for it and that is what I'm asking. If no one wants it at that
> price, I'll put it on eBay and sell it for more. J
>
>
>
> I have a another QRP rig that I may sell for the same time constraints as
> above if anybody is interested. It is an HB1B from TenTec (YouKits).
>
>
>
> At some point, I will regret this, but let the fun begin!
>
>
>
> 73, Jim K0ESE
>

11503. Re: [AT_Sprint] Re: QBSA

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 17:00:12 UTC
From: Jackie's Russell
Topic: 2467 Message: 11503

Jim, someone kindly added the file to the ats files section.

Thanks for the effort.

Jackie
AC4EH

Sent from my iPhone

On Jul 24, 2013, at 12:01 PM, "k6jf_radio" <jimf53@...> wrote:

> Jackie,
>
> Send me an email and I will send you the file. My email is good on QRZ.com.
>
> Jim K6JF
>
> --- In AT_Sprint@yahoogroups.com, "Jackie Russell" <jackier1061@...> wrote:
> >
> > Does anyone happen to have the drilling template for the QBSA? The manual says one is included on the CD but I don't have the cd and I want to put it in a case.
> >
> > Any help would be appreciated.
> >
> > Jackie
> > AC4EH
> >
>
>

11504. MTR sold

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 17:42:00 UTC
From: Jim Crooke
Topic: 11504 Message: 11504

Guys and gals,

I ended up with 17 calls to be in the hat from VK land to Russia, Germany, Great Britain and the Americas. Even had offers over the asking price, had to think on those for a second or two. I assigned a number to each call and used a random number generator and it chose John, K5JS.

I wish I had more to offer to you all. Steve, you are a genius. Good luck to each of you if Steve opens up another batch.

73, Jim K0ESE

11505. Lithiums, ATSs, and, MTRs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 18:17:13 UTC
From: WA0ITP
Topic: 11505 Message: 11505

In Steve's post of 2 July he menitoned the possibility of an updated MTR. Among the features included might be a built in buck/boost regulator. It is a great idea to fix the input voltage at 12 volts, or whatever you like. This will be perfect to use with any battery, but especially the Lithium varieties.

For Steve's rigs I've been using a LiFePO4 six cell pack with an outboard buck/boost for well over a year. It removes the concern about overvoltage when the pack is fully charged, and of course still provides the set voltage as the pack discharges under the setting. An inexpensive and lightweight single or 2 cell lipo will make an ideal battery for the new MTR when and if it happens. LiPOs are an excellent battery choice for /P ops.

Someone mentioned Hobby King, I've used them for RC model supplies for some time.

Here's a 3/4 AH single cell LiPO that should work well for 4-6 hours for only $2.88
http://www.hobbyking.com/hobbyking/store/__20386__Turnigy_nano_tech_750mah_1S_35_70C_Lipo_Pack_Fits_Nine_Eagles_Solo_Pro_180_.html

and a 1.2 AH 2 cell for $5.98 http://www.hobbyking.com/hobbyking/store/__17275__Turnigy_nano_tech_1200mah_2S_15_25C_Lipo_AIRSOFT_Pack.html

One caveat: Don't allow a LiPO to discharge to to 3 volts per cell or below. It will be damaged if that happens. If a LiPO cell falls below 3 volts, consider it toast.
http://batteryuniversity.com/learn/article/charging_lithium_ion_batteries

Usual disclamers.

I hope this helps your battery decisions.

Real radios weigh less than a pound.
I love this radio stuff !
72 WA0ITP
www.wa0itp.com
www.4sqrp.com

11506. Re: [AT_Sprint] Lithiums, ATSs, and, MTRs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 18:37:21 UTC
From: TJ Campie
Topic: 11505 Message: 11506

How do you suppose we run the MTR off a 3.7v battery? ;)

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Jul 24, 2013 at 1:17 PM, WA0ITP <wa0itp@...> wrote:

> **
>
>
> **
> In Steve's post of 2 July he menitoned the possibility of an updated MTR.
> Among the features included might be a built in buck/boost regulator. It
> is a great idea to fix the input voltage at 12 volts, or whatever you
> like. This will be perfect to use with any battery, but especially the
> Lithium varieties.
>
> For Steve's rigs I've been using a LiFePO4 six cell pack with an outboard
> buck/boost for well over a year. It removes the concern about overvoltage
> when the pack is fully charged, and of course still provides the set
> voltage as the pack discharges under the setting. An inexpensive and
> lightweight single or 2 cell lipo will make an ideal battery for the new
> MTR when and if it happens. LiPOs are an excellent battery choice for /P
> ops.
>
> Someone mentioned Hobby King, I've used them for RC model supplies for
> some time.
>
> Here's a 3/4 AH single cell LiPO that should work well for 4-6 hours for
> only $2.88
>
> http://www.hobbyking.com/hobbyking/store/__20386__Turnigy_nano_tech_750mah_1S_35_70C_Lipo_Pack_Fits_Nine_Eagles_Solo_Pro_180_.html
>
> and a 1.2 AH 2 cell for $5.98
> http://www.hobbyking.com/hobbyking/store/__17275__Turnigy_nano_tech_1200mah_2S_15_25C_Lipo_AIRSOFT_Pack.html
>
> One caveat: Don't allow a LiPO to discharge to to 3 volts per cell or
> below. It will be damaged if that happens. If a LiPO cell falls below 3
> volts, consider it toast.

> http://batteryuniversity.com/learn/article/charging_lithium_ion_batteries
>
>
> Usual disclamers.
>
> I hope this helps your battery decisions.
> ----------
> Real radios weigh less than a pound.
> I love this radio stuff !
> 72 WA0ITP
> www.wa0itp.com
> www.4sqrp.com
>
>
>
>
>
>

11507. Re: [AT_Sprint] Lithiums, ATSs, and, MTRs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 18:38:38 UTC
From: TJ Campie
Topic: 11505 Message: 11507

Ah I see what you're saying...use a converter to get it to the required 11V
or whatever you want... :)

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Wed, Jul 24, 2013 at 1:37 PM, TJ Campie <tom.campie@...> wrote:

> How do you suppose we run the MTR off a 3.7v battery? ;)
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> *Because QRO is too easy*
>
>
> On Wed, Jul 24, 2013 at 1:17 PM, WA0ITP <wa0itp@mchsi.com> wrote:
>
>> **
>>
>>
>> **
>> In Steve's post of 2 July he menitoned the possibility of an updated
>> MTR. Among the features included might be a built in buck/boost regulator. It
>> is a great idea to fix the input voltage at 12 volts, or whatever you
>> like. This will be perfect to use with any battery, but especially the
>> Lithium varieties.
>>
>> For Steve's rigs I've been using a LiFePO4 six cell pack with an outboard
>> buck/boost for well over a year. It removes the concern about overvoltage
>> when the pack is fully charged, and of course still provides the set
>> voltage as the pack discharges under the setting. An inexpensive and
>> lightweight single or 2 cell lipo will make an ideal battery for the new
>> MTR when and if it happens. LiPOs are an excellent battery choice for /P
>> ops.
>>
>> Someone mentioned Hobby King, I've used them for RC model supplies for
>> some time.

>>
>> Here's a 3/4 AH single cell LiPO that should work well for 4-6 hours for
>> only $2.88
>>
>> http://www.hobbyking.com/hobbyking/store/__20386__Turnigy_nano_tech_750mah_1S_35_70C_Lipo_Pack_Fits_Nine_Eagles_Solo_Pro_180_.html
>>
>> and a 1.2 AH 2 cell for $5.98
>> http://www.hobbyking.com/hobbyking/store/__17275__Turnigy_nano_tech_1200mah_2S_15_25C_Lipo_AIRSOFT_Pack.html
>>
>> One caveat: Don't allow a LiPO to discharge to to 3 volts per cell or
>> below. It will be damaged if that happens. If a LiPO cell falls below 3
>> volts, consider it toast.
>> http://batteryuniversity.com/learn/article/charging_lithium_ion_batteries
>>
>>
>> Usual disclamers.
>>
>> I hope this helps your battery decisions.
>> ----------
>> Real radios weigh less than a pound.
>> I love this radio stuff !
>> 72 WA0ITP
>> www.wa0itp.com
>> www.4sqrp.com
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11508. Re: [AT_Sprint] Lithiums, ATSs, and, MTRs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-24 22:08:10 UTC
From: Scott Zastoupil
Topic: 11505 Message: 11508

One option to monitor the battery cell voltages is use one that plugs into the balance taps on the battery pack. It appears the packs Terry posted do not have taps since they go into an Airsoft gun. But most other lipos have taps on them.
http://www.hobbyking.com/hobbyking/store/__409__408__Chargers_Accessories-Accessories.html

A DMM or rig built in volt meter would definitely suffice, but for a couple bucks more you can easily monitor all of the cells. A QRP rig as a load is very tame with these packs and the C rating they have. I use the Turnigy nano techs for airplanes and have had good luck with them. Charge at 3-4C (15-20min charge time) and discharge at 40-50C (or 40-50 amps on a 1000mAh pack). Only slight puffiness after 50-100cycles. Anyway, cheap stuff that works well enough.

As said before, look for the little american flag next to the product to order from the US warehouse to save on shipping cost and time.

Scott, KB0KFX

From: WA0ITP <wa0itp@mchsi.com>
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, July 24, 2013 1:17 PM
Subject: [AT_Sprint] Lithiums, ATSs, and, MTRs

In Steve's post of 2 July he menitoned the
possibility of an updated MTR. Among the features included might be a
built in buck/boost regulator. It is a great
idea to fix the input voltage at 12 volts, or whatever you
like. This will be perfect to use with
any battery, but especially the Lithium varieties.

For Steve's rigs I've been
using a LiFePO4 six cell pack with an outboard
buck/boost for well over a year. It removes the concern
about overvoltage when the pack is fully charged, and of course still provides
the set voltage as the pack discharges under the setting. An inexpensive
and lightweight single or 2 cell lipo will make an ideal battery for the new MTR
when and if it happens. LiPOs are an excellent battery choice for /P
ops.

Someone mentioned Hobby King, I've used them
for RC model supplies for some time.

Here's a 3/4 AH single cell LiPO that
should work well for 4-6 hours for only $2.88
http://www.hobbyking.com/hobbyking/store/__20386__Turnigy_nano_tech_750mah_1S_35_70C_Lipo_
Pack_Fits_Nine_Eagles_Solo_Pro_180_.html

and a 1.2 AH 2 cell for $5.98 http://www.hobbyking.com/hobbyking/store/__17275__Turnigy_nano_tech_1200mah_2S_15_25C_Lipo_AIRSOFT_Pack.html

One caveat: Don't allow a LiPO to discharge to
to 3 volts per cell or below. It will be damaged if that
happens. If a LiPO cell falls below 3 volts, consider it toast.
http://batteryuniversity.com/learn/article/charging_lithium_ion_batteries

Usual disclamers.

I hope this helps your battery decisions.

Real radios
weigh less than a pound.
I love this radio stuff !
72
WA0ITP
www.wa0itp.com
www.4sqrp.com

11509. FS AT 3a 80-20m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-26 18:50:57 UTC
From: Dale Putnam
Topic: 11509 Message: 11509
Attachments: 4 described; binary payloads are missing from this source WARC

FOR SALE:
A complete, working, guaranteed, ready to go with you... AT3a meets specs... actually does better.
Been mounted in two or three different boxes, but now resides in a flip top blue striped home, that
houses both the radio and the extra filters.
More-Photos on request.
It is a fun little radio, been taken on vacation to N. C. so it went through local air worthiness inspections.
Has never been packed around on foot, but give it credit for miles flown.
I want everyone that wants this cool radio to have a chance at it. This is how it will work this time:
I will take offers, direct email, not through any reflector, or by any other means, through Sunday evening 7pm MT or
0100 z. At which time the offers will be evaluated. The chosen winner will be contacted immediately, and the radio will be
shipped via Priority Flat Rate on Monday morning. So, if you make an offer, and expect to win, pay attention to your email
on Sunday evening. This will provide access to all for the rest of today and two more days.
Understand that my financial situation demands this and likely other radios too... and I am not entirely happy with letting
go, so convince me that the little guy will be taken good care of, too. The highest bidder, that doesn't convince me that the radio
will be cared for... won't win. No points aren't taken away for spelling errors, either, but multiple bids from the same originator
lose points rapidly.
Thank you for the bandwidth, and keep responses direct, please.

Have a great day,

--... ...--
Dale - WC7S in Wy

11510. Re: [AT_Sprint] FS AT 3a 80-20m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-26 19:28:16 UTC
From: Wilford Lindsey
Topic: 11509 Message: 11510

Dale:

Well, I wud be very happy to buy the 80 metre band coil....tho no doubt whoever buys the rest of the station wud want it, of course (!). But please know of my very great interest, for sure.

73,

Doc

Sent from my iPhone

On Jul 26, 2013, at 12:50, Dale Putnam <daleputnam@...> wrote:

>
> <AT3a 001.JPG>
>
>
> <AT3a 002.JPG>
>
>
> <AT3a 004.JPG>
>
>
> <AT3a 005.JPG>
> FOR SALE:
> A complete, working, guaranteed, ready to go with you... AT3a meets specs... actually does better.
> Been mounted in two or three different boxes, but now resides in a flip top blue striped home, that
> houses both the radio and the extra filters.
> More-Photos on request.
> It is a fun little radio, been taken on vacation to N. C. so it went through local air worthiness inspections.
> Has never been packed around on foot, but give it credit for miles flown.
> I want everyone that wants this cool radio to have a chance at it. This is how it will work this time:
> I will take offers, direct email, not through any reflector, or by any other means, through Sunday evening 7pm MT or
> 0100 z. At which time the offers will be evaluated. The chosen winner will be contacted immediately, and the radio will be
> shipped via Priority Flat Rate on Monday morning. So, if you make an offer, and expect to win, pay attention to your email
> on Sunday evening. This will provide access to all for the rest of today and two more days.
> Understand that my financial situation demands this and likely other radios too... and I

am not entirely happy with letting
> go, so convince me that the little guy will be taken good care of, too. The highest bidder, that doesn't convince me that the radio
> will be cared for... won't win. No points aren't taken away for spelling errors, either, but multiple bids from the same originator
> lose points rapidly.
> Thank you for the bandwidth, and keep responses direct, please.
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>

11511. Re: FS AT 3a 80-20m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-28 23:36:18 UTC
From: jgaffke
Topic: 11509 Message: 11511

Doc,
You might get some 0.1" pitch prototyping board and cut it down to size, search for "2 side pph" on digikey.com. If you can use prototyping board elsewhere it would save money to get something bigger than their smallest size. Digikey (or Mouser) can probably set you up with all the other parts as well.
Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, Wilford Lindsey <QRPNUT5@...> wrote:
> Well, I wud be very happy to buy the 80 metre band coil

11512. RE: [AT_Sprint] FS AT 3a 80-20m

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-29 02:26:08 UTC
From: Dale Putnam
Topic: 11509 Message: 11512

Thank you for all the response.
The little fellow has a new home, headed off first thing in the morning.
Thanks for the bandwidth.

Have a great day,

--... ...--
Dale - WC7S in Wy

11513. New to the AT Sprint Group

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-07-29 18:51:22 UTC
From: synovial_98
Topic: 11513 Message: 11513

Hi,

I'm new to the group and am looking forward to communicating with fellow AT owners. I've been licensed since 1972, but mostly inactive until about a year ago.

I enjoy the hobby (or is it obsession?) immensely, as I work in addition to QRP many modes and frequencies, including satellite ops.

Looking forward to QSOs via CW with everyone.

Thanks and 73,
Ken
WB4EJZ

11514. Finally starting my ATS-4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-03 22:02:50 UTC
From: Owen B. Mehegan
Topic: 11514 Message: 11514

I am finally going to start building the ATS-4a that I bought from another list member well over a year ago. One less KD1JV kit that will remain unbuilt! Before I start, I was wondering if anyone could dust off that part of their memory and comment on whether the instructions and especially the errata listed in the files section here are valid:
http://groups.yahoo.com/group/AT_Sprint/files/W9CF/

I do have the CD that came with the kit, so I can use the instructions off of that, but if there are errata to consider for them I want to make sure I have those. Thanks in advance!

--
owen@nerdnetworks.org (Owen B. Mehegan)
'When I was in sixth grade many years ago, I passed out after gym class one day. When I woke up, I had vivid memories of cartoonish bananas dancing around a red pool of blood, chanting 'E equals MC squared' over and over.'
--Poster to ask.metafilter.com

11515. RE: [AT_Sprint] Finally starting my ATS-4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-04 00:17:24 UTC
From: Dale Putnam
Topic: 11514 Message: 11515

Hi Owen,

The cd and errata are pretty much it. Follow the step by step, and you'll get there just fine.

Good Luck, and remember, the fun... is just beginning now.

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: owen@...
Date: Sat, 3 Aug 2013 15:02:50 -0700
Subject: [AT_Sprint] Finally starting my ATS-4a

I am finally going to start building the ATS-4a that I bought from another list member well over a year ago. One less KD1JV kit that will remain unbuilt! Before I start, I was wondering if anyone could dust off that part of their memory and comment on whether the instructions and especially the errata listed in the files section here are valid:
http://groups.yahoo.com/group/AT_Sprint/files/W9CF/

I do have the CD that came with the kit, so I can use the instructions off of that, but if there are errata to consider for them I want to make sure I have those. Thanks in advance!

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owen@nerdnetworks.org (Owen B. Mehegan)
'When I was in sixth grade many years ago, I passed out after gym class one day. When I woke up, I had vivid memories of cartoonish bananas dancing around a red pool of blood, chanting 'E equals MC squared' over and over.'
--Poster to ask.metafilter.com

11516. MTR 20m receiver performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-04 06:23:23 UTC
From: warren_3byd
Topic: 11516 Message: 11516

Hi All,

I have an MTR from the first build and I have had plenty of contacts on 40m but always found stations hard to hear on 20m.

I have now done some testing of the performance on both 40 and 20, and found that it needed about 6db more from the signal generator to achieve the same audio level out of the receiver on 20 compared to 40.

I have gone over the receiver front end and I am happy that the correct components and turns have been used and the trimmers are tuned for best performance.

I measured the injection level from the DDS at the top of R18, I had -21dBm on 40 and -33dBm on 20.

All tests were done with a commercial radio generator / analyser.

So the question is, is this difference in receiver performance a feature or a fault?

73
Warren
VK3BYD

11517. antenna tuner for mtr?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-04 19:05:59 UTC
From: james
Topic: 11517 Message: 11517

just wondering what everyone is using as an antenna tuner for their mtr. i have an endz fed 20/40 wire that i will be using with my mtr and want to get as low swr as possible for the mtr. i was looking at the MFJ-9201. any thoughts?

11518. Re: [AT_Sprint] antenna tuner for mtr?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-04 19:51:45 UTC
From: Gil G.
Topic: 11517 Message: 11518

On Sun, 2013-08-04 at 19:05 +0000, james wrote:
>
> just wondering what everyone is using as an antenna tuner for their
> mtr. i have an endz fed 20/40 wire that i will be using with my mtr
> and want to get as low swr as possible for the mtr. i was looking at
> the MFJ-9201. any thoughts?
>
>
Hello,

I use an end-fed tuner from betterqrp.com with the LNR precision trail
friendly wire and choke. Works like a charm and the EFHW tuner does have
the little LED to check for SWR. Best of all it covers 20 and 40m.
The betterqrp tuner is also very small...

Gil.

11519. Re: antenna tuner for mtr?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-04 20:35:44 UTC
From: n1rx
Topic: 11517 Message: 11519

I am going to to repackage my 1st-run 20/40 MTR into the new case I got from Steve at Lobstercon. When I do, I intend to build and endfed tuner and LED SWR indicator inside the case. Looks like there will be room, but it will take some planning.

Bruce
N1RX

--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
>
> On Sun, 2013-08-04 at 19:05 +0000, james wrote:
> >
> > just wondering what everyone is using as an antenna tuner for their
> > mtr. i have an endz fed 20/40 wire that i will be using with my mtr
> > and want to get as low swr as possible for the mtr. i was looking at
> > the MFJ-9201. any thoughts?
> >
> >
> Hello,
>
> I use an end-fed tuner from betterqrp.com with the LNR precision trail
> friendly wire and choke. Works like a charm and the EFHW tuner does have
> the little LED to check for SWR. Best of all it covers 20 and 40m.
> The betterqrp tuner is also very small...
>
> Gil.
>

11520. Re: [AT_Sprint] Re: antenna tuner for mtr?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-04 21:00:08 UTC
From: Lee Hiers
Topic: 11517 Message: 11520

Hey Bruce...that sounds pretty interesting...I will look forward to hearing more about that little project!

73 de Lee, AA4GA
On Aug 4, 2013 4:36 PM, "n1rx" <bruce.beford@...> wrote:

> **
>
>
> I am going to to repackage my 1st-run 20/40 MTR into the new case I got
> from Steve at Lobstercon. When I do, I intend to build and endfed tuner and
> LED SWR indicator inside the case. Looks like there will be room, but it
> will take some planning.
>
> Bruce
> N1RX
>
> --- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:
> >
> > On Sun, 2013-08-04 at 19:05 +0000, james wrote:
> > >
> > > just wondering what everyone is using as an antenna tuner for their
> > > mtr. i have an endz fed 20/40 wire that i will be using with my mtr
> > > and want to get as low swr as possible for the mtr. i was looking at
> > > the MFJ-9201. any thoughts?
> > >
> > >
> > Hello,
> >
> > I use an end-fed tuner from betterqrp.com with the LNR precision trail
> > friendly wire and choke. Works like a charm and the EFHW tuner does have
> > the little LED to check for SWR. Best of all it covers 20 and 40m.
> > The betterqrp tuner is also very small...
> >
> > Gil.
> >
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11521. RE: [AT_Sprint] Re: antenna tuner for mtr?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-04 21:30:08 UTC
From: James Rodenkirch
Topic: 11517 Message: 11521

Bruce: look at the KI6J end fed half wave tuner - might be the ticket for integration as it's small and it has the Tayloe swr indicator. www.betterqrp.com
72, Jim Rodenkirch K9JWV

To: AT_Sprint@yahoogroups.com
From: bruce.beford@...
Date: Sun, 4 Aug 2013 20:35:44 +0000
Subject: [AT_Sprint] Re: antenna tuner for mtr?

I am going to to repackage my 1st-run 20/40 MTR into the new case I got from Steve at Lobstercon. When I do, I intend to build and endfed tuner and LED SWR indicator inside the case. Looks like there will be room, but it will take some planning.

Bruce

N1RX

--- In AT_Sprint@yahoogroups.com, "Gil G." <gil@...> wrote:

>

> On Sun, 2013-08-04 at 19:05 +0000, james wrote:

> >

> > just wondering what everyone is using as an antenna tuner for their

> > mtr. i have an endz fed 20/40 wire that i will be using with my mtr

> > and want to get as low swr as possible for the mtr. i was looking at

> > the MFJ-9201. any thoughts?

> >

> >

> Hello,

>

> I use an end-fed tuner from betterqrp.com with the LNR precision trail

> friendly wire and choke. Works like a charm and the EFHW tuner does have

> the little LED to check for SWR. Best of all it covers 20 and 40m.

> The betterqrp tuner is also very small...

>

> Gil.

>

11522. Re: antenna tuner for mtr?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-04 23:12:25 UTC
From: n1rx
Topic: 11517 Message: 11522

Right. Thanks, Jim.
Same idea, but I will be building a similar circuit within the rig, without a PC board.
72,
Bruce
N1RX

--- In AT_Sprint@yahoogroups.com, James Rodenkirch <rodenkirch_llc@...> wrote:
>
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>
> Bruce: look at the KI6J end fed half wave tuner - might be the ticket for integration as it's small and it has the Tayloe swr indicator. www.betterqrp.com
> 72, Jim Rodenkirch K9JWV
>
>
>
> To: AT_Sprint@yahoogroups.com
> From: bruce.beford@...
> Date: Sun, 4 Aug 2013 20:35:44 +0000
> Subject: [AT_Sprint] Re: antenna tuner for mtr?
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> I am going to to repackage my 1st-run 20/40 MTR into the new case I got from Steve at Lobstercon. When I do, I intend to build and endfed tuner and LED SWR indicator inside the case. Looks like there will be room, but it will take some planning.
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> Bruce
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> N1RX
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> --- In AT_Sprint@yahoogroups.com, "Gil G." <gil@> wrote:
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> > On Sun, 2013-08-04 at 19:05 +0000, james wrote:
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> > >
>
> > > just wondering what everyone is using as an antenna tuner for their
>
> > > mtr. i have an endz fed 20/40 wire that i will be using with my mtr
>
> > > and want to get as low swr as possible for the mtr. i was looking at
>
> > > the MFJ-9201. any thoughts?
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>
> > Hello,
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> >
>
> > I use an end-fed tuner from betterqrp.com with the LNR precision trail
>
> > friendly wire and choke. Works like a charm and the EFHW tuner does have
>
> > the little LED to check for SWR. Best of all it covers 20 and 40m.
>
> > The betterqrp tuner is also very small...
>
> >
>
> > Gil.
>

> >
>

11523. EFHW and Capacitive Touch Keyer

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-05 01:48:51 UTC
From: Bradley
Topic: 11523 Message: 11523

I posted a picture (ATS3B KZ5W) of my rig taken while hiking the JMT out of Yosemite last week. It's a little beat up - spent a lot of time in the backpack the last couple of years. It's pretty low profile - just have to figure out how to fit the tuner in the case. It's shown with it's optional water proof case (Baggie) and Antenna installation tool (Rock) - I designed the little surface mount cap touch key that takes up zero space in the case. I think I'm going to take my MTR out of the nice case that came with it and go back to the Altoids can, the steel case is a little heavy for the worlds best/lightest backpack rig.

11524. Re: MTR 20m receiver performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-05 02:39:35 UTC
From: Yannick
Topic: 11516 Message: 11524

Hi Warren,

First my MTR is built for 30m/20m and I mostly use it on 20m.
I have not noticed this behavior on my MTR and here is my experience with the MTR sensitivity.

When on a quiet band (20m in the mid-afternoon), if I hear on my TS-590s a signal who is just 1S point above the noise but clearly copiable, it will still be copiable on the MTR but deeper in the noise. I guess that means the MDS of the MTR is within 6-9dB of that of the TS-590s.
When the band is noisy it's another story of course, but with its narrow filter and quiet receiver chain, the MTR is never deceiving.
One difference is that being without AGC, on the MTR the signals are just three levels :
- weak (and if there is QSB or noise, too weak)
- good copy
- strong
On a modern receiver with a good AGC circuit, you can usually guess where the S-meter needle will be just listening to the signal.

If have not done A/B comparison on 30m between a commercial receiver and the MTR, but I have never had the feeling it was much less sensitive. The same between 30m and 20m on the MTR.

73,
Yan - XV4Y.
---
http://costa.radioclub.asia/ (Project COSTA : Online contest statistics)

--- In AT_Sprint@yahoogroups.com, "warren_3byd" <vk3byd@...> wrote:
>
> Hi All,
>
> I have an MTR from the first build and I have had plenty of contacts on 40m but always found stations hard to hear on 20m.
>
> I have now done some testing of the performance on both 40 and 20, and found that it needed about 6db more from the signal generator to achieve the same audio level out of the receiver on 20 compared to 40.
>
> I have gone over the receiver front end and I am happy that the correct components and turns have been used and the trimmers are tuned for best performance.
>
> I measured the injection level from the DDS at the top of R18, I had -21dBm on 40 and -33dBm on 20.
>
> All tests were done with a commercial radio generator / analyser.

>
> So the question is, is this difference in receiver performance a feature or a fault?
>
> 73
> Warren
> VK3BYD
>

11525. Re: MTR 20m receiver performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-05 19:15:41 UTC
From: Tom
Topic: 11516 Message: 11525

Hi Warren,

With an uncalibrated HP8640B I can clearly hear a signal at -130dbm on both 40 and 20 meters. I have the MTR2.
I would start looking for broken smt caps in the 20M LPF/BPF by unsoldering them from the board. They sometimes are impossible to spot unless you remove them one by one.

Tom, ak2b
>
> So the question is, is this difference in receiver performance a feature or a fault?
>
> 73
> Warren
> VK3BYD
>

11526. Re: MTR 20m receiver performance

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-05 21:24:06 UTC
From: warren_3byd
Topic: 11516 Message: 11526

Thanks Yan and Tom,

I felt the performance of the MTR on both bands should be similar but without another receiver it was difficult to confirm.

I can hear signals on 20, but it was not until I fed a known signal in and measure the resultant audio output that I realised I had a problem.

I will continue to work on it.
Thanks,
Warren.
VK3BYD

--- In AT_Sprint@yahoogroups.com, "warren_3byd" <vk3byd@...> wrote:
>
> Hi All,
>
> I have an MTR from the first build and I have had plenty of contacts on 40m but always found stations hard to hear on 20m.
>
> I have now done some testing of the performance on both 40 and 20, and found that it needed about 6db more from the signal generator to achieve the same audio level out of the receiver on 20 compared to 40.
>
> I have gone over the receiver front end and I am happy that the correct components and turns have been used and the trimmers are tuned for best performance.
>
> I measured the injection level from the DDS at the top of R18, I had -21dBm on 40 and -33dBm on 20.
>
> All tests were done with a commercial radio generator / analyser.
>
> So the question is, is this difference in receiver performance a feature or a fault?
>
> 73
> Warren
> VK3BYD
>

11527. HELP - only 40 minutes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-06 00:19:01 UTC
From: Mike Olbrisch
Topic: 11527 Message: 11527

I was going to try playing in the Spartan Sprint tonight.

I just turned on my ATS-4B to check it out. 15 - OK. 40m - OK.

20m - not so good. When I set it to 20m, I get a continuous side-tone, and the frequency display shows:

. . 7 MHz. I would interpret that to mean _ _ _._ _ _._ _ 7 MHz.

Is there some kind of master reset I can do, or am I out of luck for 20m tonight? Thanks.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

11528. Re: [AT_Sprint] HELP - only 40 minutes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-06 00:34:24 UTC
From: Johnny Matlock
Topic: 11527 Message: 11528

ge mike
Turn it off and back on and cycle all the band switches, some times they
get lost'
Gl
Johnny AC0BQ

On Monday, August 5, 2013, Mike Olbrisch wrote:

> **
>
>
> I was going to try playing in the Spartan Sprint tonight.
>
> I just turned on my ATS-4B to check it out. 15 - OK. 40m - OK.
>
> 20m - not so good. When I set it to 20m, I get a continuous side-tone, and
> the frequency display shows:
>
> . . 7 MHz. I would interpret that to mean _ _ _._ _ _._ _ 7 MHz.
>
> Is there some kind of master reset I can do, or am I out of luck for 20m
> tonight? Thanks.
>
> Vy73 - Mike - KD9KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/
>
>
>

11529. RE: [AT_Sprint] HELP - only 40 minutes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-06 00:45:16 UTC
From: Mike Olbrisch
Topic: 11527 Message: 11529

Yep - tried that already. The TX and RX RIT is also showing funny stuff - like 9.9z2.

Just dunno. Very disappointed right now. Glad the dog isn't in the shack, cause I would want to kick him.... and he weighs 155 pounds. He might bite back! <grin>.

Anyone has other ideas - I am game. Otherwise, guess I'll go watch TV or something!

Let's see. #1 - Toyota blew an A/C compressor yesterday. #2 - ATS-4 lost its mind tonight. Anyone know if there is a meteor shower coming tomorrow or something, cause I wonder what #3 will be. <grin>.

Mike - KD9KC.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Johnny Matlock
Sent: Monday, August 05, 2013 18:34
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] HELP - only 40 minutes.

ge mike
Turn it off and back on and cycle all the band switches, some times they get lost'
Gl
Johnny AC0BQ

On Monday, August 5, 2013, Mike Olbrisch wrote:

I was going to try playing in the Spartan Sprint tonight.

I just turned on my ATS-4B to check it out. 15 - OK. 40m - OK.

20m - not so good. When I set it to 20m, I get a continuous side-tone, and the frequency display shows:

. . 7 MHz. I would interpret that to mean _ _ _._ _ _._ _ 7 MHz.

Is there some kind of master reset I can do, or am I out of luck for 20m tonight? Thanks.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

11530. RE: [AT_Sprint] HELP - only 40 minutes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-06 00:51:46 UTC
From: Dale Putnam
Topic: 11527 Message: 11530

Hey Mike,

Fiirst, put all the band switches to the far right, unplug the key, then power it up. Step thu the menu.. if that works as it is to.. then change bands.. get all three switches to the next selected band.. see if that doesn't get it back to right, k?

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: mike-2007@...
Date: Mon, 5 Aug 2013 18:19:01 -0600
Subject: [AT_Sprint] HELP - only 40 minutes.

I was going to try playing in the Spartan Sprint tonight.

I just turned on my ATS-4B to check it out. 15 - OK. 40m - OK.

20m - not so good. When I set it to 20m, I get a continuous side-tone, and the frequency display shows:

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Is there some kind of master reset I can do, or am I out of luck for 20m tonight? Thanks.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

11531. RE: [AT_Sprint] HELP - only 40 minutes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-06 00:52:41 UTC
From: Dale Putnam
Topic: 11527 Message: 11531

and yes.. the perseids are coming...
Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: mike-2007@elp.rr.com
Date: Mon, 5 Aug 2013 18:45:16 -0600
Subject: RE: [AT_Sprint] HELP - only 40 minutes.

Yep - tried that already. The TX and RX RIT is also showing funny stuff - like 9.9z2.

Just dunno. Very disappointed right now. Glad the dog isn't in the shack, cause I would want to kick him.... and he weighs 155 pounds. He might bite back! <grin>.

Anyone has other ideas - I am game. Otherwise, guess I'll go watch TV or something!

Let's see. #1 - Toyota blew an A/C compressor yesterday. #2 - ATS-4 lost its mind tonight. Anyone know if there is a meteor shower coming tomorrow or something, cause I wonder what #3 will be. <grin>.

Mike - KD9KC.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Johnny Matlock
Sent: Monday, August 05, 2013 18:34
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] HELP - only 40 minutes.

ge mike

Turn it off and back on and cycle all the band switches, some times they get lost'

Gl

Johnny AC0BQ

On Monday, August 5, 2013, Mike Olbrisch wrote:

I was going to try playing in the Spartan Sprint tonight.

I just turned on my ATS-4B to check it out. 15 - OK. 40m - OK.

20m - not so good. When I set it to 20m, I get a continuous side-tone, and
the frequency display shows:

. . 7 MHz. I would interpret that to mean _ _ _._ _ _._ _ 7 MHz.

Is there some kind of master reset I can do, or am I out of luck for 20m tonight? Thanks.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

11532. RE: [AT_Sprint] HELP - only 40 minutes - too late now.....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-06 02:08:02 UTC
From: Mike Olbrisch
Topic: 11527 Message: 11532

Nope - didn't work Dale.

I somehow got it reading 65.000.047 MHz. From there, I would step it down to 64.999.997 (yeah - weird). Then I would DFE it to 64.000.097. then exit DFE, step it down twice to 63.999.997, then DFE it to 63.000.097, then exit DFE and step it down twice to 62.999.997, ... until I got it to 14.999.997. Then I DFE it to 14.060.047. It seems to be working, but by this time I am not hearing anything on 20m, so I don't know if it really works or not.

OK - so I turned on the FT5000, and without an antenna attached I can hear the ATS-4B. So it is sending something. I attached the antenna to the FT5000, and I can hear it (@ 10 watts) in the ATS-4B, so it is receiving something. Unclear if it is transmitting any power, or receiving well, as everything is CLOSE! Who couldn't hear 10 watts 5 feet away even without an antenna?

This is the second time I have had this happen to this radio, the first time it was 30m just before I packed it up for Germany, remember? What am I doing wrong? Is this some bug, or something wired wrong, or just me?????

More important, what can I do so that it doesn't happen anymore? It is worthless to me if I can't count on it after a long hard climb up some summit. While I am disappointed that I missed the sprint, it is better than climbing N. Franklin in 100º +F temps only to have 20m die on me.

Anxious to hear your thoughts.

Mike.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Monday, August 05, 2013 18:52
To: AT Sprint
Subject: RE: [AT_Sprint] HELP - only 40 minutes.

Hey Mike,
Fiirst, put all the band switches to the far right, unplug the key, then power it up. Step thu the menu.. if that works as it is to.. then change bands.. get all three switches to the next selected band.. see if that doesn't get it back to right, k?

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: mike-2007@...
Date: Mon, 5 Aug 2013 18:19:01 -0600
Subject: [AT_Sprint] HELP - only 40 minutes.

I was going to try playing in the Spartan Sprint tonight.

I just turned on my ATS-4B to check it out. 15 - OK. 40m - OK.

20m - not so good. When I set it to 20m, I get a continuous side-tone, and the frequency display shows:

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Is there some kind of master reset I can do, or am I out of luck for 20m tonight? Thanks.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

11533. RE: [AT_Sprint] HELP - only 40 minutes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-06 02:08:39 UTC
From: Mike Olbrisch
Topic: 11527 Message: 11533

Thanks. I'll stay in bed tomorrow - right after I deliver the Toyota to the repair shop.

Mike.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Dale Putnam
Sent: Monday, August 05, 2013 18:53
To: AT Sprint
Subject: RE: [AT_Sprint] HELP - only 40 minutes.

and yes.. the perseids are coming...
Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: mike-2007@...
Date: Mon, 5 Aug 2013 18:45:16 -0600
Subject: RE: [AT_Sprint] HELP - only 40 minutes.

Yep - tried that already. The TX and RX RIT is also showing funny stuff - like 9.9z2.

Just dunno. Very disappointed right now. Glad the dog isn't in the shack, cause I would want to kick him.... and he weighs 155 pounds. He might bite back! <grin>.

Anyone has other ideas - I am game. Otherwise, guess I'll go watch TV or something!

Let's see. #1 - Toyota blew an A/C compressor yesterday. #2 - ATS-4 lost its mind tonight. Anyone know if there is a meteor shower coming tomorrow or something, cause I wonder what #3 will be. <grin>.

Mike - KD9KC.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Johnny Matlock
Sent: Monday, August 05, 2013 18:34
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] HELP - only 40 minutes.

ge mike
Turn it off and back on and cycle all the band switches, some times they get lost'

Gl
Johnny AC0BQ

On Monday, August 5, 2013, Mike Olbrisch wrote:

I was going to try playing in the Spartan Sprint tonight.

I just turned on my ATS-4B to check it out. 15 - OK. 40m - OK.

20m - not so good. When I set it to 20m, I get a continuous side-tone, and the frequency display shows:

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Is there some kind of master reset I can do, or am I out of luck for 20m tonight? Thanks.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

11534. Re: HELP - only 40 minutes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-06 17:12:14 UTC
From: k8mdb
Topic: 11527 Message: 11534

This is the third or fourth time I've heard someone having this issue. I had a similar issue with the freq jumping, but it was on 40m. I had to do the same, put in 00000 on the key then step down, then 00000, then step down... for about half an hour to get it back to 7mhz. My freq base is also slight off since that happened, like 7.030.064 or something. Haven't found a way to get it back to 7.030.000. Looks like yours might have done the same thing.

So it sounds like a bug, but I haven't seen a fix for it yet.

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> Thanks. I'll stay in bed tomorrow - right after I deliver the Toyota to the
> repair shop.
>
> Mike.
>
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of Dale Putnam
> Sent: Monday, August 05, 2013 18:53
> To: AT Sprint
> Subject: RE: [AT_Sprint] HELP - only 40 minutes.
>
>
>
>
>
> and yes.. the perseids are coming...
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
> _____
>
> To: AT_Sprint@yahoogroups.com
> From: mike-2007@...
> Date: Mon, 5 Aug 2013 18:45:16 -0600
> Subject: RE: [AT_Sprint] HELP - only 40 minutes.
>
>
> Yep - tried that already. The TX and RX RIT is also showing funny stuff -
> like 9.9z2.

>
> Just dunno. Very disappointed right now. Glad the dog isn't in the shack,
> cause I would want to kick him.... and he weighs 155 pounds. He might bite
> back! <grin>.
>
> Anyone has other ideas - I am game. Otherwise, guess I'll go watch TV or
> something!
>
> Let's see. #1 - Toyota blew an A/C compressor yesterday. #2 - ATS-4 lost
> its mind tonight. Anyone know if there is a meteor shower coming tomorrow
> or something, cause I wonder what #3 will be. <grin>.
>
> Mike - KD9KC.
>
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
> Of Johnny Matlock
> Sent: Monday, August 05, 2013 18:34
> To: AT_Sprint@yahoogroups.com
> Subject: Re: [AT_Sprint] HELP - only 40 minutes.
>
>
>
> ge mike
> Turn it off and back on and cycle all the band switches, some times they get
> lost'
> Gl
> Johnny AC0BQ
>
> On Monday, August 5, 2013, Mike Olbrisch wrote:
>
> I was going to try playing in the Spartan Sprint tonight.
>
> I just turned on my ATS-4B to check it out. 15 - OK. 40m - OK.
>
> 20m - not so good. When I set it to 20m, I get a continuous side-tone, and
> the frequency display shows:
>
> . . 7 MHz. I would interpret that to mean _ _ _._ _ _._ _ 7 MHz.
>
> Is there some kind of master reset I can do, or am I out of luck for 20m
> tonight? Thanks.
>
> Vy73 - Mike - KD9KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/
>

11535. Re: [AT_Sprint] Re: HELP - only 40 minutes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-06 19:50:02 UTC
From: Steven Weber
Topic: 11527 Message: 11535

Yes, it is a bug and I think it was fixed, but can't remember for sure. I don't belive it was a problem for the 4A or 4B. It was most likely to happen when coming out of calibration mode. There might have been something else which corupted the last used frequency registers when some unique sequence of events happend. Unfortuately, I did not include a method to clear those registers if they got corupted and once something gets written to them, it stays there.

The firmware in the files section will have the latest version which would clear up the problem for now and hopefully keep it for occuring again. If you can't reflash the chip, I would be happy to do it for you for return postage.

72, Steve KD1JV

> This is the third or fourth time I've heard someone having this issue. I
> had a similar issue with the freq jumping, but it was on 40m. I had to do
> the same, put in 00000 on the key then step down, then 00000, then step
> down... for about half an hour to get it back to 7mhz. My freq base is
> also slight off since that happened, like 7.030.064 or something. Haven't
> found a way to get it back to 7.030.000. Looks like yours might have done
> the same thing.
>
> So it sounds like a bug, but I haven't seen a fix for it yet.
>

11536. RE: [AT_Sprint] Re: HELP - only 40 minutes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-06 21:44:01 UTC
From: Mike Olbrisch
Topic: 11527 Message: 11536

Thank you - thank you - thank you.... you really don't know how much that helps. You see, things like this happen to me all the time, and when I go to fix it I get that "we've never seen anything quite like this before" answer.

So while you haven't provided me a fix, you have at least confirmed that I am not alone. <grin>.

My solution ended up being the same as yours, and my last two digits are either .047 or .097.

Can you identify any cause? The first time I had it happen was on 30m, and Steve got it fixed for me before I had to pack up for Germany. I only used it about 3 times in Germany, and it worked great. I could have sold it several times over for twice what I paid. So at least it didn't hang me there. But last night I was going to try it in the Spartan Sprint. 20m is the band to start with there. And somehow it went to _ _ _ . _ _ _ . _ 47 on the display, and has a continuous side-tome in the ear buds.

I played around with it, trying turning it on and off, flipping switches and even trying switch combinations. Somehow I got it to read 65.000.097. From there, like you, it was DFE to 65.000.097, then step down, then DFE to 64.000.097 again, step after step. The contest had about 30 minutes left when I finished. I made 4 contacts.

It seems to be working, but now I am worried - what next? I don't think I can trust it for the purpose I bought it for, a very hard summit where my 2.5 pound FT-817 is too heavy. Was planning for late Sept or Oct, but I will put that off for now, no trust in my gear.

So thanks for confirming you were in exactly the same position. We may not be happy, but we have each other. <grin>.

Mike - KD9KC.

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of k8mdb
Sent: Tuesday, August 06, 2013 11:12
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Re: HELP - only 40 minutes.

This is the third or fourth time I've heard someone having this issue. I had a similar issue with the freq jumping, but it was on 40m. I had to do the same, put in 00000 on the key then step down, then 00000, then step down... for about half an hour to get it back to 7mhz. My freq base is also slight off since that happened, like 7.030.064 or something. Haven't found a way to

get it back to 7.030.000. Looks like yours might have done the same thing.

So it sounds like a bug, but I haven't seen a fix for it yet.

--- In AT_Sprint@yahoogroups.com, "Mike Olbrisch" <mike-2007@...> wrote:
>
> Thanks. I'll stay in bed tomorrow - right after I deliver the Toyota to
the
> repair shop.
>
> Mike.
>
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On
Behalf
> Of Dale Putnam
> Sent: Monday, August 05, 2013 18:53
> To: AT Sprint
> Subject: RE: [AT_Sprint] HELP - only 40 minutes.
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>
>
>
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> and yes.. the perseids are coming...
> Have a great day,
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> --... ...-- Dale - WC7S in Wy
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> To: AT_Sprint@yahoogroups.com
> From: mike-2007@...
> Date: Mon, 5 Aug 2013 18:45:16 -0600
> Subject: RE: [AT_Sprint] HELP - only 40 minutes.
>
>
> Yep - tried that already. The TX and RX RIT is also showing funny stuff -
> like 9.9z2.
>
> Just dunno. Very disappointed right now. Glad the dog isn't in the
shack,
> cause I would want to kick him.... and he weighs 155 pounds. He might
bite
> back! <grin>.
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> Anyone has other ideas - I am game. Otherwise, guess I'll go watch TV or
> something!

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> Let's see. #1 - Toyota blew an A/C compressor yesterday. #2 - ATS-4 lost
> its mind tonight. Anyone know if there is a meteor shower coming tomorrow
> or something, cause I wonder what #3 will be. <grin>.
>
> Mike - KD9KC.
>
> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On
Behalf
> Of Johnny Matlock
> Sent: Monday, August 05, 2013 18:34
> To: AT_Sprint@yahoogroups.com
> Subject: Re: [AT_Sprint] HELP - only 40 minutes.
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>
> ge mike
> Turn it off and back on and cycle all the band switches, some times they
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> Johnny AC0BQ
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> On Monday, August 5, 2013, Mike Olbrisch wrote:
>
> I was going to try playing in the Spartan Sprint tonight.
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> I just turned on my ATS-4B to check it out. 15 - OK. 40m - OK.
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> 20m - not so good. When I set it to 20m, I get a continuous side-tone, and
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> . . 7 MHz. I would interpret that to mean _ _ _._ _ _._ _ 7 MHz.
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> Vy73 - Mike - KD9KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/
>

Yahoo! Groups Links

11537. RE: [AT_Sprint] Re: HELP - only 40 minutes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-06 22:25:56 UTC
From: Mike Olbrisch
Topic: 11527 Message: 11537

Hi steve.

Thanks for the offer. It may be in the mail to you in the next few days.

Please note - this is the second time. I sent it to you last time, you got it back to me just before I left for Germany. It was the 30m band last time. This time 20m.

I was just tuning the frequency up or down when it happened, don't know what I could have done to cause it. Or prevent it.

I hope you can figure it out. Will let you know when it is on the way. Thanks very much.

Vy73 - Mike - KD9KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Tuesday, August 06, 2013 13:50
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: HELP - only 40 minutes.

Yes, it is a bug and I think it was fixed, but can't remember for sure. I don't belive it was a problem for the 4A or 4B. It was most likely to happen

when coming out of calibration mode. There might have been something else which corupted the last used frequency registers when some unique sequence of events happend. Unfortuately, I did not include a method to clear those registers if they got corupted and once something gets written to them, it stays there.

The firmware in the files section will have the latest version which would clear up the problem for now and hopefully keep it for occuring again. If you can't reflash the chip, I would be happy to do it for you for return postage.

72, Steve KD1JV

> This is the third or fourth time I've heard someone having this issue. I
> had a similar issue with the freq jumping, but it was on 40m. I had to do
> the same, put in 00000 on the key then step down, then 00000, then step
> down... for about half an hour to get it back to 7mhz. My freq base is
> also slight off since that happened, like 7.030.064 or something. Haven't
> found a way to get it back to 7.030.000. Looks like yours might have done

> the same thing.
>
> So it sounds like a bug, but I haven't seen a fix for it yet.
>

Yahoo! Groups Links

11538. ATS III ("Down" function quit working?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-08 22:14:14 UTC
From: wlinn.linn
Topic: 11538 Message: 11538

Can't figure this one out and not exactly sure how to check the switch function. Looks to be a simple off and on momentary function with both contacts wired in parallel? I built this kit in '05 or '06. Had it in to Steve once for repairs due to my swr boo-boo. I still use it by setting the frequency from the "Enter" function on the menu and can tune "UP" using the button but not having the "DOWN" function makes it tough to "Hunt and Pounce."

Anyone have a suggestion before I ask Steve if he will fix it again?

Thanks,
Bill W7WEL

11539. Re: [AT_Sprint] ATS III ("Down" function quit working?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-09 00:32:51 UTC
From: Steven Weber
Topic: 11538 Message: 11539

Try jumpering out the switch and if it starts to tune down, then the switch needs to be replaced. If it doesn't maybe the port got zapped and the processor needs to be replaced. But if that happens, usually it will not stop tuning, so my bet is the switch wore out.

Steve KD1JV

> Can't figure this one out and not exactly sure how to check the switch
> function. Looks to be a simple off and on momentary function with both
> contacts wired in parallel? I built this kit in '05 or '06. Had it in
> to Steve once for repairs due to my swr boo-boo. I still use it by
> setting the frequency from the "Enter" function on the menu and can tune
> "UP" using the button but not having the "DOWN" function makes it tough to
> "Hunt and Pounce."
>
> Anyone have a suggestion before I ask Steve if he will fix it again?
>
> Thanks,
> Bill W7WEL

11540. NAQCC Sprint Tuesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-09 14:35:02 UTC
From: NAQCC
Topic: 2905 Message: 11540

NAQCC Sprint Tuesday night!

Our August Sprint is this coming Tuesday evening local time (August 13, EDT - 8:30-10:30PM, CDT - 7:30-9:30PM, MDT - 6:30-8:30PM, PDT - 5:30-7:30PM), which translates as Wednesday August 14, 0030Z to 0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201308.html

There you will find all the details as to time, frequencies and other important information.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you've been hesitant to join in our sprints because you hear other sprints running at breakneck speeds, have no fear. Our sprints are geared to the newcomer to CW and/or contesting. Virtually everyone including the many veteran contesters who regularly enter our sprints will slow down to YOUR speed to help you make your contacts.

If you are not already a member of NAQCC... membership is FREE! Sign up on the NAQCC website today (http://naqcc.info/) and receive a handsome certificate, with your membership number on it, which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

11541. Re: ATS III ("Down" function quit working?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-09 22:20:53 UTC
From: wlinn.linn
Topic: 11538 Message: 11541

Dale, WC7S, offered to replace the switches and check it out. (Did the switch jumpering this AM, no change.) I had already checked the continuity and switch function with an ohmmeter and it showed switch action all the way to the chip. I'm still hoping that it is just a switch and not the processor.

Just in case, are those 20 pin processors still available?

Bill - W7WEL

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Try jumpering out the switch and if it starts to tune down, then the switch
> needs to be replaced. If it doesn't maybe the port got zapped and the
> processor needs to be replaced. But if that happens, usually it will not
> stop tuning, so my bet is the switch wore out.
>
> Steve KD1JV
>
>
> > Can't figure this one out and not exactly sure how to check the switch
> > function. Looks to be a simple off and on momentary function with both
> > contacts wired in parallel? I built this kit in '05 or '06. Had it in
> > to Steve once for repairs due to my swr boo-boo. I still use it by
> > setting the frequency from the "Enter" function on the menu and can tune
> > "UP" using the button but not having the "DOWN" function makes it tough to
> > "Hunt and Pounce."
> >
> > Anyone have a suggestion before I ask Steve if he will fix it again?
> >
> > Thanks,
> > Bill W7WEL
>

11542. Re: [AT_Sprint] Re: ATS III ("Down" function quit working?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-10 00:18:58 UTC
From: Steven Weber
Topic: 11538 Message: 11542

Bill,

In that case, it is possible the chip port got blown somehow. Another thing to check is to make sure the pull up resistor is working, but that usually results in a "stuck switch" condition where it keeps tuning and doesn't stop.

Unfortunetly, I don't have any more spares of the 20 pin version left. They got hard to get at one point and I haven't looked to see if they are available for a couple of years.

Steve

> Dale, WC7S, offered to replace the switches and check it out. (Did the
> switch jumpering this AM, no change.) I had already checked the
> continuity and switch function with an ohmmeter and it showed switch
> action all the way to the chip. I'm still hoping that it is just a switch
> and not the processor.
>
> Just in case, are those 20 pin processors still available?
>
> Bill - W7WEL

11543. Re: ATS III ("Down" function quit working?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-10 23:06:10 UTC
From: jgaffke
Topic: 11538 Message: 11543

Bill,

I suggest you measure the voltage across the switch when the rig is operating. Should be about 3 volts, then go to ground when you press the switch. Make sure the MSP430 pin is soldered down good. Maybe probe the MSP430 pin itself while operating the switch.

If the MSP430 pin is flipping from 3v to 0 when you press the switch but that function is not working, then you probably need to replace the MSP430 as Steve suggests. Looks like Digikey has 1200 in stock, you can buy only one if you wish.

http://www.digikey.com/product-detail/en/MSP430F1121AIDW/296-13457-5-ND/486372

Programming it will take the old parallel port programmer, I don't have one. Perhaps somebody else in the group could program it for you.

Jerry, KE7ER

--- In AT_Sprint@yahoogroups.com, "wlinn.linn" <wlinn.linn@...> wrote:
>
> Dale, WC7S, offered to replace the switches and check it out. (Did the switch jumpering this AM, no change.) I had already checked the continuity and switch function with an ohmmeter and it showed switch action all the way to the chip. I'm still hoping that it is just a switch and not the processor.
> Just in case, are those 20 pin processors still available?

11544. BNC jack for ATS-4 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-12 21:06:53 UTC
From: Owen B. Mehegan
Topic: 11544 Message: 11544

I seem to recall that someone on this list had small BNC jacks that could be used with the ATS-4 kits in place of the original RCA jack. Dale, I thought it was you but I sent you an email directly and didn't hear back (maybe I just had the wrong address). If any are still available, I think I'd like to buy one!

--
"He is a dangerous mixture of sophistication and recklessness which makes one anxious about his influence on other boys."

11545. RE: [AT_Sprint] BNC jack for ATS-4 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-12 21:40:03 UTC
From: Dale Putnam
Topic: 11544 Message: 11545

Hey Owen, Yep! It was/is me... I have them,what's your shipping address, and can you try email direct again, please?Thanks,

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: owen@...
Date: Mon, 12 Aug 2013 14:06:53 -0700
Subject: [AT_Sprint] BNC jack for ATS-4 kit

I seem to recall that someone on this list had small BNC jacks that

could be used with the ATS-4 kits in place of the original RCA jack.

Dale, I thought it was you but I sent you an email directly and didn't

hear back (maybe I just had the wrong address). If any are still

available, I think I'd like to buy one!

--

"He is a dangerous mixture of sophistication and recklessness which

makes one anxious about his influence on other boys."

11546. Re: [AT_Sprint] BNC jack for ATS-4 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-12 22:19:49 UTC
From: nicehouse101@...
Topic: 11544 Message: 11546

Yes it was Dale he put one in my Rig when he built it.
And still again for Dale he needs another brovo zulu for a job well done.
He is allways there when you need him.
Yes he is busy but he will get back to you..... Arnt we all. lol 73

From: Owen B. Mehegan <owen@nerdnetworks.org>
To: AT_Sprint@yahoogroups.com
Sent: Monday, August 12, 2013 2:06 PM
Subject: [AT_Sprint] BNC jack for ATS-4 kit

I seem to recall that someone on this list had small BNC jacks that
could be used with the ATS-4 kits in place of the original RCA jack.
Dale, I thought it was you but I sent you an email directly and didn't
hear back (maybe I just had the wrong address). If any are still
available, I think I'd like to buy one!

--
"He is a dangerous mixture of sophistication and recklessness which
makes one anxious about his influence on other boys."

11547. voltage control for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-12 22:32:56 UTC
From: cloud runner
Topic: 11547 Message: 11547

Feedback from a user on SOTA peaks ... I think Steve said that he wants to incorporate some sort of voltage contrller that can be adjusted to and hold any given voltage, perhaps something that operates like "Anyvolt"

Just wanted to comment with regard to that, I like to have two different voltages readily available to me, one for tuning up and one for operating. (I achieve this less than elegantly with a center off SPDT toggle and some diodes for reducing the voltage from my 3S LiPO).

Radio has always worked well, by the by ... though it has seemed odd to me that throwing the band switches does not result in a band change until I touch the menu button. Throwing the switches to change bands and transmitting before touching the menu button does not yield a good result.

73, fred - kt5x

11548. RE: [AT_Sprint] BNC jack for ATS-4 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-13 00:04:15 UTC
From: Dale Putnam
Topic: 11544 Message: 11548

Thanks Ray, Yes, I have the flush mount BNCs for the 3s and 4s, including the 4b. They are very expensive, nearly $13 ea. not counting freight. But they go in and fit.The MTR in its own MTR case, will accept a standard bnc. Please contact me direct. Thank you,

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: nicehouse101@yahoo.com
Date: Mon, 12 Aug 2013 15:19:49 -0700
Subject: Re: [AT_Sprint] BNC jack for ATS-4 kit

Yes it was Dale he put one in my Rig when he built it.
And still again for Dale he needs another brovo zulu for a job well done.
He is allways there when you need him.
Yes he is busy but he will get back to you..... Arnt we all. lol 73

From: Owen B. Mehegan <owen@...>
To: AT_Sprint@yahoogroups.com
Sent: Monday, August 12, 2013 2:06 PM
Subject: [AT_Sprint] BNC jack for ATS-4 kit

I seem to recall that someone on this list had small BNC jacks that
could be used with the ATS-4 kits in place of the original RCA jack.
Dale, I thought it was you but I sent you an email directly and didn't
hear back (maybe I just had the wrong address). If any are still
available, I think I'd like to buy one!

--
"He is a dangerous mixture of sophistication and recklessness which
makes one anxious about his influence on other boys."

11549. RE: [AT_Sprint] BNC jack for ATS-4 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-13 00:18:30 UTC
From: wmorrill@...
Topic: 11544 Message: 11549

Dale- What are you using for the power plug and jack? I need to
standardize mine, probably will order some from a parts company.
Wendell
N7WM

> Thanks Ray, Yes, I have the flush mount BNCs for the 3s and 4s, including
> the 4b. They are very expensive, nearly $13 ea. not counting freight. But
> they go in and fit.The MTR in its own MTR case, will accept a standard
> bnc. Please contact me direct. Thank you,
>
> Have a great day,
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>
> --... ...--
> Dale - WC7S in Wy
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> To: AT_Sprint@yahoogroups.com
> From: nicehouse101@...
> Date: Mon, 12 Aug 2013 15:19:49 -0700
> Subject: Re: [AT_Sprint] BNC jack for ATS-4 kit
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> Yes he is busy but he will get back to you..... Arnt we all. lol 73
>
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>
> From: Owen B. Mehegan <owen@...>
> To: AT_Sprint@yahoogroups.com
> Sent: Monday, August 12, 2013 2:06 PM
> Subject: [AT_Sprint] BNC jack for ATS-4 kit
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> I seem to recall that someone on this list had small BNC jacks that
> could be used with the ATS-4 kits in place of the original RCA jack.
> Dale, I thought it was you but I sent you an email directly and didn't
> hear back (maybe I just had the wrong address). If any are still
> available, I think I'd like to buy one!
>
> --
> "He is a dangerous mixture of sophistication and recklessness which
> makes one anxious about his influence on other boys."
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11550. RE: [AT_Sprint] BNC jack for ATS-4 kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-13 01:00:07 UTC
From: Dale Putnam
Topic: 11544 Message: 11550

Hi Wendell, That becomes an issue with you have more than one of Steve's great radios. They all use different sizes:3 - .7mm3b - .7mm4 - 1.3mm
4a - 1.7mm4b - 1.8mm
On my bench I have an octopus with all of the plugs on on cable. Not a good idea, outside of a controlled environment and on a current controlled power supply. On a couple of chargers, I have an adapter to move from one to the other. And for the quick grab radio, I have a full setup only for that radio.. and an adaptor to the next smaller equipped power pack. Confusing? Maybe, but not so much if they are either color coded with tape, tiewraps, or markers. I've often thought about standardizing on one size fits all.. except for the 3 and 3b.. it would work. But then I wouldn't be as readily able to plug is someone else's radio. And it is fun to bring them all up on the airat the same time... add in the Tribander and the PFR3, with one each 3a, 3b, 4, 4a, and 4b.. and you can have more rx to listen to than your ears can keep up with.. SO7R... but grabbing the right key.. is a challange.
I don't do that very often... it makes my head hurt.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: wmorrill@...
Date: Mon, 12 Aug 2013 18:18:30 -0600
Subject: RE: [AT_Sprint] BNC jack for ATS-4 kit

Dale- What are you using for the power plug and jack? I need to

standardize mine, probably will order some from a parts company.

Wendell

N7WM

> Thanks Ray, Yes, I have the flush mount BNCs for the 3s and 4s, including

> the 4b. They are very expensive, nearly $13 ea. not counting freight. But

> they go in and fit.The MTR in its own MTR case, will accept a standard

> bnc. Please contact me direct. Thank you,

>

> Have a great day,

>

>

> --... ...--

> Dale - WC7S in Wy

>

>

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>

> To: AT_Sprint@yahoogroups.com

> From: nicehouse101@...

> Date: Mon, 12 Aug 2013 15:19:49 -0700

> Subject: Re: [AT_Sprint] BNC jack for ATS-4 kit

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> Yes he is busy but he will get back to you..... Arnt we all. lol 73

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> From: Owen B. Mehegan <owen@...>

> To: AT_Sprint@yahoogroups.com

> Sent: Monday, August 12, 2013 2:06 PM

> Subject: [AT_Sprint] BNC jack for ATS-4 kit

>

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> I seem to recall that someone on this list had small BNC jacks that

> could be used with the ATS-4 kits in place of the original RCA jack.

> Dale, I thought it was you but I sent you an email directly and didn't

> hear back (maybe I just had the wrong address). If any are still

> available, I think I'd like to buy one!

>

> --

> "He is a dangerous mixture of sophistication and recklessness which

> makes one anxious about his influence on other boys."

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11551. Re: voltage control for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-13 14:13:53 UTC
From: reed2web
Topic: 11547 Message: 11551

> Just wanted to comment with regard to that, I like to have two different voltages readily available to me, one for tuning up and one for operating. (I achieve this less than elegantly with a center off SPDT toggle and some diodes for reducing the voltage from my 3S LiPO).
>

Here follows a similar concept that may be of interest to a few folks:

Instead of diodes I use a 3.3 ohm resistance. In the tuning mode (resistance in series), this allows the voltage to vary as a function of current (more current means lower voltage for the radio, meaning less current on the output transistors). I also have four LEDs in series with a limiting resistor on the radio voltage so that the LEDs (drawing about 2ma) roughly indicate the voltage in the tune-mode (with the 3.3 ohm res). If no SWR indicator is available, I can use the brilliance of the LEDs to know if the current is too high (before flipping the switch) to full power mode.

Why 4 LEDs instead of one? (1) they give better resolution of voltage indication at 7-12 volts and (2) they are just bright enough to illuminate a pad in the dark where I write down call signs.

... Reed K7FLY

11552. Bs170 for sale on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-14 06:42:39 UTC
From: XV4Y
Topic: 11552 Message: 11552

Hi,

Following a discussion about what parts could be of interest for the HAM radio community, one of my providers informed me he has now Bs170 in stock.
I don't know how good is the price. What I know is I have bought many times from this provider directly or via the website, and I have never been deceived.
All parts are not top quality, but they are never bad.
Service and communication are the best among the chinese providers I know (still they are sellers, not engineers).

http://www.icstation.com/product_info.php?ref=5&products_id=2562
http://www.icstation.com/product_info.php?ref=5&products_id=2563

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

11553. Re: [AT_Sprint] Bs170 for sale on line

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-14 14:24:25 UTC
From: Joe W2KJ
Topic: 11552 Message: 11553

Check out Diz W8DIZ for BS170's.....you can get 25 of them for $4.50...about 18 cents each...not too bad.....and Diz is aQRP'er.

http://www.kitsandparts.com/parts.php

73, Joe W2KJ

On Aug 14, 2013, at 2:42 AM, XV4Y wrote:

> Hi,
>
> Following a discussion about what parts could be of interest for the HAM radio community, one of my providers informed me he has now Bs170 in stock.
> I don't know how good is the price. What I know is I have bought many times from this provider directly or via the website, and I have never been deceived.
> All parts are not top quality, but they are never bad.
> Service and communication are the best among the chinese providers I know (still they are sellers, not engineers).
>
> http://www.icstation.com/product_info.php?ref=5&products_id=2562
> http://www.icstation.com/product_info.php?ref=5&products_id=2563
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> 73,
> Yan.
> ---
> Yannick DEVOS - XV4Y
> http://xv4y.radioclub.asia/
> http://varc.radioclub.asia/
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11554. Re: voltage control for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-14 14:47:10 UTC
From: reed2web
Topic: 11547 Message: 11554

I an including the following schematic in case my original post was not clear or complete enough. I hope this email retains constant-space font so that the diagram below makes sense. Don't forget to get the anode (plus) in the right direction for the LEDs. For the 3.3 ohm resistor, I used three 10-ohm resistors in parallel. In total, they should be able to handle at least (or close to) one watt.

Not shown, but I also have supercapacitors across pwr+ and pwr- to render more power out from batteries, especially after 3/4 used up.

```
SPDT Switch (center off)
Norm
/ o-----------------------------+
pwr+ -->--+---o Test |
| o------+----3.3 ohm-----------+---->--- radio+
| | |
1000 ohm | |
| +--100 ohm----LED------+
LED Indicates
| Current
LED Indicates to Radio
| Battery for SWR
LED Voltage Adjustment
|
LED
|
pwr- -->---------------------------------------------->--- radio-
```

Regards ... Reed K7FLY

11555. Update on the Non-functioning "Down" button on the ATS III

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-15 21:54:47 UTC
From: wlinn.linn
Topic: 11555 Message: 11555

Dale, WC7S, checked out the button circuit and soldering. It was OK so I located the processor family on Mouser, then checked with Steve, KD1JV, he confirmed that we had found the right animal. I ordered and Mouser sent to Dale today.

Now, I am wondering if someone will explain the flashing process and what is needed to do that task?

Bill W7WEL

11556. Latest MTR update - new battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-16 14:10:00 UTC
From: TJ Campie
Topic: 11556 Message: 11556

I modified my MTR yet again to add a 11.1v LiPo battery - see the blog post: www.w0ea.blogspot.com

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

11557. Re: [AT_Sprint] Latest MTR update - new battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-16 15:45:40 UTC
From: Scott Zastoupil
Topic: 11556 Message: 11557

I assume you've charged the battery already. All of the high power chargers that I have require the main leads AND balance leads to be connected. Since you have the main leads hardwired, it seems like you loose access to the power lead pair. Maybe an internal diode will still allow charge access via the power connector. Does your charger allow you to charge via the balance taps ONLY?

The high power chargers supply most of the charge current via the main power leads and sink and/or source current on the balance taps to level the individual cells. The smaller wires of the balance leads can't handle the current on large packs when charging 1C or more (Ie. 5amps+)

Scott, KB0KFX

_____
From: TJ Campie <tom.campie@...>
To: AT Sprint <at_sprint@yahoogroups.com>
Sent: Friday, August 16, 2013 9:10 AM
Subject: [AT_Sprint] Latest MTR update - new battery

I modified my MTR yet again to add a 11.1v LiPo battery - see the blog post:
www.w0ea.blogspot.com

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

11558. Re: [AT_Sprint] Latest MTR update - new battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-16 15:51:22 UTC
From: Scott Zastoupil
Topic: 11556 Message: 11558

I'll be darned. I should have checked the website first. I see this small charger allows you to charge via the balance leads only. Most chargers don't use this method, but here is obviously the exception.

http://www.hobbyking.com/hobbyking/store/__21044__Hobbyking_DC_4S_Balance_Charger_Cell_Checker_30w_2s_4s.html

Thanks for sharing the mods.

From: Scott Zastoupil <szastoupil@...>
To: "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
Sent: Friday, August 16, 2013 10:45 AM
Subject: Re: [AT_Sprint] Latest MTR update - new battery

I assume you've charged the battery already. All of the high power chargers that I have require the main leads AND balance leads to be connected. Since you have the main leads hardwired, it seems like you loose access to the power lead pair. Maybe an internal diode will still allow charge access via the power connector. Does your charger allow you to charge via the balance taps ONLY?

The high power chargers supply most of the charge current via the main power leads and sink and/or source current on the balance taps to level the individual cells. The smaller wires of the balance leads can't handle the current on large packs when charging 1C or more (Ie. 5amps+)

Scott, KB0KFX

From: TJ Campie <tom.campie@...>
To: AT Sprint <at_sprint@yahoogroups.com>
Sent: Friday, August 16, 2013 9:10 AM
Subject: [AT_Sprint] Latest MTR update - new battery

I modified my MTR yet again to add a 11.1v LiPo battery - see the blog post:
www.w0ea.blogspot.com

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
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Elecraft KX3 SN 288
Because QRO is too easy

11559. Re: [AT_Sprint] Latest MTR update - new battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-16 15:53:39 UTC
From: TJ Campie
Topic: 11556 Message: 11559

Yeah, I have not drained the battery enough to charge it yet (it came full). I'll update when we get there!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Aug 16, 2013 at 10:51 AM, Scott Zastoupil <szastoupil@...>wrote:

> **
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>
> I'll be darned. I should have checked the website first. I see this
> small charger allows you to charge via the balance leads only. Most
> chargers don't use this method, but here is obviously the exception.
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>
> http://www.hobbyking.com/hobbyking/store/__21044__Hobbyking_DC_4S_Balance_Charger_Cell_C
hecker_30w_2s_4s.html
>
> Thanks for sharing the mods.
>
> _____
> From: Scott Zastoupil <szastoupil@...>
> To: "AT_Sprint@yahoogroups.com" <AT_Sprint@yahoogroups.com>
> Sent: Friday, August 16, 2013 10:45 AM
> Subject: Re: [AT_Sprint] Latest MTR update - new battery
>
> I assume you've charged the battery already. All of the high power
> chargers that I have require the main leads AND balance leads to be
> connected. Since you have the main leads hardwired, it seems like you
> loose access to the power lead pair. Maybe an internal diode will still
> allow charge access via the power connector. Does your charger allow you
> to charge via the balance taps ONLY?
>
> The high power chargers supply most of the charge current via the main
> power leads and sink and/or source current on the balance taps to level the
> individual cells. The smaller wires of the balance leads can't handle the
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>
> Scott, KB0KFX
>

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> To: AT Sprint <at_sprint@yahoogroups.com>
> Sent: Friday, August 16, 2013 9:10 AM
> Subject: [AT_Sprint] Latest MTR update - new battery
>
>
> I modified my MTR yet again to add a 11.1v LiPo battery - see the blog
> post: www.w0ea.blogspot.com
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
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> Because QRO is too easy
>
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>

11560. Re: Latest MTR update - new battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-17 15:10:06 UTC
From: jer terez
Topic: 11556 Message: 11560

do you have anything to warn you that the yoltage is getting too low?

11561. RE: [AT_Sprint] Re: Latest MTR update - new battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-17 15:57:50 UTC
From: Dale Putnam
Topic: 11556 Message: 11561

When the voltage gets too low for the radio to operate correctly, the keying gets ragged, the rx audio gets weaker and ragged.The display fades. By then,... you need to either find another battery... or whisper "72"

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: ohwenzelph@...
Date: Sat, 17 Aug 2013 08:10:06 -0700
Subject: [AT_Sprint] Re: Latest MTR update - new battery

do you have anything to warn you that the yoltage is getting too low?

11562. Re: Latest MTR update - new battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-17 17:14:12 UTC
From: zigmundrat
Topic: 11556 Message: 11562

I think he's talking about the battery voltage. The radio should operate well below the 9V low voltage limit (3v/cell) of a 3 cell LiPo, so there's no easy way to know without testing the battery. But that's pretty easy. I have a number of these little LiPo battery checkers (like eBay item 290817872773). There' a bunch of similar versions out there, and your local hobby shop probably has them too. Just plug it into the balance connector and read the display. I use them with my RC stuff and my QRP kit. Cheap, light, and small, they are easier to lose than keep track of :)

Paul - K9MR

--- In AT_Sprint@yahoogroups.com, Dale Putnam <daleputnam@...> wrote:
>
> When the voltage gets too low for the radio to operate correctly, the keying gets ragged, the rx audio gets weaker and ragged.The display fades. By then,... you need to either find another battery... or whisper "72"
>
> Have a great day,
>
>
> --... ...--
> Dale - WC7S in Wy
>
>
>
>
> To: AT_Sprint@yahoogroups.com
> From: ohwenzelph@...
> Date: Sat, 17 Aug 2013 08:10:06 -0700
> Subject: [AT_Sprint] Re: Latest MTR update - new battery
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> do you have anything to warn you that the voltage is getting too low?
>

11563. Re: Latest MTR update - new battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-17 17:35:25 UTC
From: TJ Campie
Topic: 11556 Message: 11563

Don't forget you can check the battery voltage right from the MTR too!

On Saturday, August 17, 2013, zigmundrat wrote:

> **
>
>
> I think he's talking about the battery voltage. The radio should operate
> well below the 9V low voltage limit (3v/cell) of a 3 cell LiPo, so there's
> no easy way to know without testing the battery. But that's pretty easy. I
> have a number of these little LiPo battery checkers (like eBay item
> 290817872773). There' a bunch of similar versions out there, and your local
> hobby shop probably has them too. Just plug it into the balance connector
> and read the display. I use them with my RC stuff and my QRP kit. Cheap,
> light, and small, they are easier to lose than keep track of :)
>
> Paul - K9MR
>
> --- In AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint%40yahoogroups.com');>, Dale Putnam <daleputnam@...> wrote:
> >
> > When the voltage gets too low for the radio to operate correctly, the
> keying gets ragged, the rx audio gets weaker and ragged.The display fades.
> By then,... you need to either find another battery... or whisper "72"
> >
> > Have a great day,
> >
> >
> > --... ...--
> > Dale - WC7S in Wy
> >
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> >
> >
> > To: AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint%40yahoogroups.com');>
> > From: ohwenzelph@...
> > Date: Sat, 17 Aug 2013 08:10:06 -0700
> > Subject: [AT_Sprint] Re: Latest MTR update - new battery
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> > do you have anything to warn you that the yoltage is getting too low?
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73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

11564. Re: [AT_Sprint] Re: Latest MTR update - new battery

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-17 18:17:59 UTC
From: Dale Putnam
Topic: 11556 Message: 11564

The BSI from Hendricks would do that too, and fit inside the MTR too!
Have a great day,
Dale - WC7S

-----Original Message-----
From: zigmundrat <yahoogroups13@...>
Date: Sat, 17 Aug 2013 17:14:12
To: <AT_Sprint@yahoogroups.com>
Subject: [AT_Sprint] Re: Latest MTR update - new battery

I think he's talking about the battery voltage. The radio should operate well below the 9V low voltage limit (3v/cell) of a 3 cell LiPo, so there's no easy way to know without testing the battery. But that's pretty easy. I have a number of these little LiPo battery checkers (like eBay item 290817872773). There' a bunch of similar versions out there, and your local hobby shop probably has them too. Just plug it into the balance connector and read the display. I use them with my RC stuff and my QRP kit. Cheap, light, and small, they are easier to lose than keep track of :)

Paul - K9MR

--- In AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com> , Dale Putnam <daleputnam@...> wrote:
>
> When the voltage gets too low for the radio to operate correctly, the keying gets ragged, the rx audio gets weaker and ragged.The display fades. By then,... you need to either find another battery... or whisper "72"
>
> Have a great day,
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> --... ...--
> Dale - WC7S in Wy
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>
> To: AT_Sprint@yahoogroups.com <mailto:AT_Sprint%40yahoogroups.com>
> From: ohwenzelph@...
> Date: Sat, 17 Aug 2013 08:10:06 -0700
> Subject: [AT_Sprint] Re: Latest MTR update - new battery
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> do you have anything to warn you that the yoltage is getting too low?
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11565. SMK-2

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-20 18:01:28 UTC
From: k4byf050431
Topic: 11565 Message: 11565

A couple of months ago I sent an sase to the California address listed in the SMK-2 manual for several missing smd's from my kit. So far no reply. Is there another source for smd components so I can finish the project??

11566. MTR build question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-09 23:42:47 UTC
From: todd.thompsen
Topic: 11566 Message: 11566

I am having trouble identifying which is pin one on U1 and U3, identified as "612". I have the two chips in hand, viewing under a magnifying lens. I can read "SA612A" and the subsequent lines, but do not see a dot or indentation to identify which is pin one. If I'm reading it like a book, is it the upper left hand corner? Any help would be appreciated, this is my first SMT project.

Thanks,
Todd
W7TAO

11567. RE: [AT_Sprint] MTR build question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-20 18:35:44 UTC
From: Dale Putnam
Topic: 11566 Message: 11567

Hi Todd, Look at the top edge of the ic, to see a tilted edge, one that is slanted towards the legs on that side... Then look at the layout, there is a side shown with a heavier inked or darkened side.. that makes it right.
Good luck,
Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: thompsen73@...
Date: Fri, 9 Aug 2013 23:42:47 +0000
Subject: [AT_Sprint] MTR build question

I am having trouble identifying which is pin one on U1 and U3, identified as "612". I have the two chips in hand, viewing under a magnifying lens. I can read "SA612A" and the subsequent lines, but do not see a dot or indentation to identify which is pin one. If I'm reading it like a book, is it the upper left hand corner? Any help would be appreciated, this is my first SMT project.

Thanks,

Todd

W7TAO

11568. Re: [AT_Sprint] MTR build question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-20 18:41:23 UTC
From: wb6kwt
Topic: 11566 Message: 11568

Todd,

Look for a bevel on one edge of the chip, pin 1 will be at the top left side.

Bob
wb6kwt

On 8/9/2013 4:42 PM, todd.thompsen wrote:
>
> I am having trouble identifying which is pin one on U1 and U3,
> identified as "612". I have the two chips in hand, viewing under a
> magnifying lens. I can read "SA612A" and the subsequent lines, but do
> not see a dot or indentation to identify which is pin one. If I'm
> reading it like a book, is it the upper left hand corner? Any help
> would be appreciated, this is my first SMT project.
>
> Thanks,
> Todd
> W7TAO
>
>

11569. Re: MTR build question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-20 19:35:43 UTC
From: Colin
Topic: 11566 Message: 11569

Todd,

In addition to the correct information for looking for the bevelled edge, in this particular instance you can use the lettering for the manufacturer 'NXP' you'll find this lettering at a different orientation to the rest of the writing on the chip. Pin one is nearest to the NXP lettering.

Hope this helps, good luck with your build!

72,
Colin
M1BUU
--- In AT_Sprint@yahoogroups.com, "todd.thompsen" <thompsen73@...> wrote:
>
> I am having trouble identifying which is pin one on U1 and U3, identified as "612". I have the two chips in hand, viewing under a magnifying lens. I can read "SA612A" and the subsequent lines, but do not see a dot or indentation to identify which is pin one. If I'm reading it like a book, is it the upper left hand corner? Any help would be appreciated, this is my first SMT project.
>
> Thanks,
> Todd
> W7TAO
>

11570. Re: SMK-2

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-20 20:57:05 UTC
From: ab6wl
Topic: 11565 Message: 11570

Doug has been tied up working on his house. I think he is done and back in business. Try sending an email to parts@... or call him between 9am and 5pm Pacific time at 209-704-3522.

--- In AT_Sprint@yahoogroups.com, "k4byf050431" <k4byf@...> wrote:
>
> A couple of months ago I sent an sase to the California address listed in the SMK-2 manual for several missing smd's from my kit. So far no reply. Is there another source for smd components so I can finish the project??
>

11571. Re: MTR build question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-20 22:50:31 UTC
From: n1rx
Topic: 11566 Message: 11571

Only if you hold the IC with the bevel on the left... The point here is that the beveled edge is always the side of the IC that includes pin 1. Once you have that, the SMT ICs follow the same pin out designations as a thru-hole part. Labeling (on some ICs) can vary. The beveled edge of the body molding does not.

GL,
Bruce NRX

--- In AT_Sprint@yahoogroups.com, wb6kwt <wb6kwt@...> wrote:
>
> Todd,
>
> Look for a bevel on one edge of the chip, pin 1 will be at the top left
> side.
>
> Bob
> wb6kwt

11572. Re: [AT_Sprint] Re: SMK-2

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-20 21:51:15 UTC
From: <k4byf@...>
Topic: 11565 Message: 11572

Thanks for the info, I'll try contacting Doug direct. 72 de Jack
---- ab6wl <ecraig@...> wrote:
>
> Doug has been tied up working on his house. I think he is done and back in business. Try sending an email to parts@... or call him between 9am and 5pm Pacific time at 209-704-3522.
>
>
> --- In AT_Sprint@yahoogroups.com, "k4byf050431" <k4byf@...> wrote:
> >
> > A couple of months ago I sent an sase to the California address listed in the SMK-2 manual for several missing smd's from my kit. So far no reply. Is there another source for smd components so I can finish the project??
> >
>
>

11573. Two for one trade

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-21 16:53:52 UTC
From: philip_graitcer
Topic: 11573 Message: 11573

I have two built MTRs, one from the first run, the other from the second run. The first run is 20/40, the second is 20/30. Both were built by me and they work fine, putting out 4-5 watts on bands (12V). They are in the Weber metal cases. They have been used, but are cosmetically flawless.

I wish I had one rig that would allow me to have multiple bands. I already have an AS3b, so I would like an ATS4.

So I would like to trade BOTH MTRs for a built or unbuilt ATS4, preferably second run.

Anyone interested in such a trade?

At this point I am not interested in selling them or splitting up the pair. Just a trade (if there is a difference in total kits costs, we can work that out).

Phil, W3HZZ

11574. Spare .01 uf cap?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-21 17:53:00 UTC
From: Owen B. Mehegan
Topic: 11574 Message: 11574

Per the errata for the ATS-4a build that I'm doing, C46 is supposed to be a .01 uf cap, but a .1 uf is provided. Does anyone happen to have a spare .01 0805 SMT cap they could stick in an envelope? It seems like that would be the easiest way for me to get one :) I could send a SASE!

--
"He is a dangerous mixture of sophistication and recklessness which makes one anxious about his influence on other boys."

11575. Re: [AT_Sprint] Two for one trade

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-21 18:22:08 UTC
From: george@...
Topic: 11573 Message: 11575

On 21.08.2013 12:53, philip_graitcer wrote:
> I have two built MTRs, one from the first run, the other from the
> second run. The first run is 20/40, the second is 20/30. Both were
> built by me and they work fine, putting out 4-5 watts on bands (12V).
> They are in the Weber metal cases. They have been used, but are
> cosmetically flawless.
>
> I wish I had one rig that would allow me to have multiple bands. I
> already have an AS3b, so I would like an ATS4.
>
> So I would like to trade BOTH MTRs for a built or unbuilt ATS4,
> preferably second run.
>
> Anyone interested in such a trade?
>
> At this point I am not interested in selling them or splitting up
> the pair. Just a trade (if there is a difference in total kits costs,
> we can work that out).
>
> Phil, W3HZZ
>
>
>
> Links:
> ------
> [1]
>
> http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJybmswbGZzBF9TAzk3MzU5NzE0BGdycE
lkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAMxMTU3MwRzZWMDZnRyBHNsawNycGx5BHN0aW1lAzEz
NzcxMDQwMzU-?act=reply&messageNum=11573
> [2]
>
> http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJmbDlvbGlhBF9TAzk3MzU5NzE0BGdycE
lkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNudHBjBHN0aW1lAzEzNzcxMDQwMzU-
> [3]
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> http://groups.yahoo.com/group/AT_Sprint/message/11573;_ylc=X3oDMTM3cHBsZjY2BF9TAzk3MzU5N
zE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAMxMTU3MwRzZWMDZnRyBHNsawN2dHBjBHN
0aW1lAzEzNzcxMDQwMzUEdHBjSWQDMTE1NzM-
> [4]
>
> http://groups.yahoo.com/group/AT_Sprint/members;_ylc=X3oDMTJnbHZqampzBF9TAzk3MzU5NzE0BGd
ycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2bWJycwRzdGltZQMxMzc3MTA0MDM1?
o=6
> [5]

>
> http://groups.yahoo.com/group/AT_Sprint;_ylc=X3oDMTJmbmpvZnJvBF9TAzk3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzEzNzcxMDQwMzU-
> [6]
>
> http://groups.yahoo.com/;_ylc=X3oDMTJldm1tdjhmBF9TAzk3MzU5NzE0BGdycElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTM3NzEwNDAzNQ--
> [7] http://docs.yahoo.com/info/terms/

11576. Re: [AT_Sprint] Spare .01 uf cap?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-21 20:10:28 UTC
From: Steven Weber
Topic: 11576 Message: 11576

Just use the .1
KD1JV

> Per the errata for the ATS-4a build that I'm doing, C46 is supposed to
> be a .01 uf cap, but a .1 uf is provided. Does anyone happen to have a
> spare .01 0805 SMT cap they could stick in an envelope? It seems like
> that would be the easiest way for me to get one :) I could send a SASE!
>
> --
> "He is a dangerous mixture of sophistication and recklessness which
> makes one anxious about his influence on other boys."
>

11577. AOK-BL8S - Battery Voltage Tester and Low Voltage Buzzer Alarm

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-21 21:17:01 UTC
From: ke7ngo11
Topic: 11577 Message: 11577

Has anyone used the AOK-BL8S - Battery Voltage Tester and Low Voltage Buzzer Alarm? It looks like it could be nice for LIPO and LIFE minimum voltage detection. Also be good for determining if you need to engage a diode on a 3S LIPO battery to reduce voltage for your ATS radio.

http://www.hobbypartz.com/79p-8003-voltagemonitor.html
http://www.youtube.com/watch?v=T_aZZEp8j2M

11578. Availability of kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-22 02:09:27 UTC
From: kr6ai2013
Topic: 11578 Message: 11578

Hello group, first time post for me. I have always managed to miss the production runs of the AT series . I have built a K2, a kx1 and a wilderness Nor Cal 40a . These radios have always intrigued me and I would love to build one. Are any kits available? Thanks
KR6AI

11579. ATS-4b blind display - help!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-22 13:48:24 UTC
From: Guido
Topic: 11579 Message: 11579

My beloved ATS-4b did not survive falling down to the ground from the table. The display is blank, the TX/RX still works, the display shows no vislible damage. Backlight OK.
Need help!
The type is LCD GRAPHICS EADOGM123x-5
- who ist the manufacturer? or where can I buy an replacement
- Datasheet?
- is there a Test-Mode for the display? how to activate?
- how can I verify if the display is damaged or the processor, can I measure the data stream from proc to the display at which pin?

Any help very welcome!
Thanks
Guido
HB9BQB

11580. RE: [AT_Sprint] ATS-4b blind display - help!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-22 13:58:49 UTC
From: Dale Putnam
Topic: 11579 Message: 11580

Hi Guido, This may be way simple... but is the display maybe not secure in the socket? And a very close inspection of the soldering may be very helpful too.I've had that happen a couple times... and it always turns out to be a connection issue of some sort.Good Luck,

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: hb9bqb@yahoo.com
Date: Thu, 22 Aug 2013 13:48:24 +0000
Subject: [AT_Sprint] ATS-4b blind display - help!

My beloved ATS-4b did not survive falling down to the ground from the table. The display is blank, the TX/RX still works, the display shows no vislible damage. Backlight OK.

Need help!

The type is LCD GRAPHICS EADOGM123x-5

- who ist the manufacturer? or where can I buy an replacement

- Datasheet?

- is there a Test-Mode for the display? how to activate?

- how can I verify if the display is damaged or the processor, can I measure the data stream from proc to the display at which pin?

Any help very welcome!

Thanks

Guido

HB9BQB

11581. Re: [AT_Sprint] ATS-4b blind display - help!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-22 17:09:14 UTC
From: Steven Weber
Topic: 11579 Message: 11581

Try reseating it in the socket, it can pop out fairly easialy.

The display is of German manufacture, google the part number and you should find a local distributer. The data sheet is also available on line.

KD1JV

> My beloved ATS-4b did not survive falling down to the ground from the
> table. The display is blank, the TX/RX still works, the display shows no
> vislible damage. Backlight OK.
> Need help!
> The type is LCD GRAPHICS EADOGM123x-5

11582. Re: Availability of kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-22 19:12:00 UTC
From: l
Topic: 11578 Message: 11582

http://www.qrpkits.com/index.html

Several Steve Weber designs are readily available.

No waiting for the next build.

For multiband portable ops, the pfr3 is a very fine rig.
Documentation and performance are excellent. A internal z-match tuner and battery case reduces backpack requirements.

Download the manual for more info.

The Yahoo Group is here:

http://groups.yahoo.com/group/pfr3_group/

Scratched my "build-something" itch.

72,

Larry ns4q

--- In AT_Sprint@yahoogroups.com, "kr6ai2013" <kevinandpatty@...> wrote:
>
> Hello group, first time post for me. I have always managed to miss the production runs of the AT series . I have built a K2, a kx1 and a wilderness Nor Cal 40a . These radios have always intrigued me and I would love to build one. Are any kits available? Thanks
> KR6AI
>

11583. Re: Availability of kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 00:54:27 UTC
From: kr6ai2013
Topic: 11578 Message: 11583

Thank you for the info. I have looked into the pfr3 and it is similar to my kx1. I may end up building one while I awaiting for a chance at the next release. kR6AI

--- In AT_Sprint@yahoogroups.com, "l" <lradio1@...> wrote:
>
> http://www.qrpkits.com/index.html
>
> Several Steve Weber designs are readily available.
>
> No waiting for the next build.
>
> For multiband portable ops, the pfr3 is a very fine rig.
> Documentation and performance are excellent. A internal z-match tuner and battery case reduces backpack requirements.
>
> Download the manual for more info.
>
> The Yahoo Group is here:
>
> http://groups.yahoo.com/group/pfr3_group/
>
> Scratched my "build-something" itch.
>
> 72,
>
> Larry ns4q
>
> --- In AT_Sprint@yahoogroups.com, "kr6ai2013" <kevinandpatty@> wrote:
> >
> > Hello group, first time post for me. I have always managed to miss the production runs of the AT series . I have built a K2, a kx1 and a wilderness Nor Cal 40a . These radios have always intrigued me and I would love to build one. Are any kits available? Thanks
> > KR6AI
> >
>

11584. New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 01:18:21 UTC
From: Steven
Topic: 11584 Message: 11584

Hey Gang,

With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.

The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.

As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.

Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.

For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :

http://kd1jv.qrpradio.com/mbdc.pdf

It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.

For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!

Steve KD1JV

11585. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 01:28:01 UTC
From: andrew.cross
Topic: 11584 Message: 11585

Yes please, count me in!

Andrew Cross
VK2ONZ
M0ONZ

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
>
> As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.
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> Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.
>
> For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :
>
> http://kd1jv.qrpradio.com/mbdc.pdf
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> It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.
>
> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV

>

11586. Re: [AT_Sprint] Re: Availability of kits

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 01:30:06 UTC
From: Hank Greeb
Topic: 11578 Message: 11586

I've never used a KX1, but it looks similar to the K1 which I HAVE used.

For whatever reason, it seems to me that the AT-Sprint series,and the PFR is almost a copy of the AT-Sprint, has a much better receiver than the K1.

That's my impression - I've not run any stats on either the K1 or my "original" AT-Sprint.

72/73 de n8xx Hg
QRP >99.44% of the time

On 8/22/2013 8:54 PM, kr6ai2013 wrote:
> I have looked into the pfr3 and it is similar to my kx1.

11587. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 01:36:14 UTC
From: Ted Groke
Topic: 11584 Message: 11587

Hi Steve,

Of course I want one of your 160/80 M kits. Please put me on your list.
Thanks,

Ted, W2TAG

On Thu, Aug 22, 2013 at 9:18 PM, Steven <steve.kd1jv@...> wrote:

> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this
> time I was hoping to offer a simple 160/80 meter rig, but due to technical
> difficultes - basically a good idea which didn't really work - I was unable
> to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just
> didn't cut it. That problem has been solved by the Chinese. For the
> unbelievable low price of about $6.00 and $1.00 postage, you can buy direct
> from China an actual AD9850 DDS board. With one of these in hand as the
> core, I preceeded to reserect the 160/80 rig project.
>
> As a bonus to using a DDS chip capable of up to 40 MHz operation, the
> receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all
> modes can be received. However, no preselector is included, and it seems
> it's happy to hear signals which are at the 3d harmomic of the LO, but
> that's a minor issue. When used on 160 or 80, the transmitter LPF solves
> that problem.
>
> Anyway, here's the deal. I'm thinking of making 50 board kits available.
> This design uses all through hole parts so it can eventually be marketed to
> the unwashed masses. I haven't figured out a price, but I think $65 is a
> good number for now, with you buying the 9850 board and a 2X16 LCD direct
> from China for about another $10.00 or less. That would save me from making
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> aluminum case.
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> For more info, a preliminary manual (less construction details, as I
> haven't gotten that far yet) is available here :
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> http://kd1jv.qrpradio.com/mbdc.pdf
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> It contains some photos of my prototype, the schematic, board layout and
> operating instructions. I'm not quite done tweaking the circuit or the
> firmware, but I should have that done fairly soon. At this point I don't
> see any show stoppers.

>
> For this project I'll take reservations for those who DEFINATELY want one.
> Let me know Thanks!
>
> Steve KD1JV
>
>
>
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> Yahoo! Groups Links
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11588. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 01:45:24 UTC
From: Robin Kidd
Topic: 11584 Message: 11588

On 08/22/2013 09:18 PM, Steven wrote:
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about
> this time I was hoping to offer a simple 160/80 meter rig, but due to
> technical difficultes - basically a good idea which didn't really work
> - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use
> just didn't cut it. That problem has been solved by the Chinese. For
> the unbelievable low price of about $6.00 and $1.00 postage, you can
> buy direct from China an actual AD9850 DDS board. With one of these in
> hand as the core, I preceeded to reserect the 160/80 rig project.
>
> As a bonus to using a DDS chip capable of up to 40 MHz operation, the
> receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so
> all modes can be received. However, no preselector is included, and it
> seems it's happy to hear signals which are at the 3d harmomic of the
> LO, but that's a minor issue. When used on 160 or 80, the transmitter
> LPF solves that problem.
>
> Anyway, here's the deal. I'm thinking of making 50 board kits
> available. This design uses all through hole parts so it can
> eventually be marketed to the unwashed masses. I haven't figured out a
> price, but I think $65 is a good number for now, with you buying the
> 9850 board and a 2X16 LCD direct from China for about another $10.00
> or less. That would save me from making that investment. The board is
> sized to fit into a qrpkits.com "premium" aluminum case.
>
> For more info, a preliminary manual (less construction details, as I
> haven't gotten that far yet) is available here :
>
> http://kd1jv.qrpradio.com/mbdc.pdf
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> It contains some photos of my prototype, the schematic, board layout
> and operating instructions. I'm not quite done tweaking the circuit or
> the firmware, but I should have that done fairly soon. At this point I
> don't see any show stoppers.
>
> For this project I'll take reservations for those who DEFINATELY want
> one. Let me know Thanks!
>
> Steve KD1JV
>

>
Steve,
I most certainly want one.

--
Regards,
Robin Kidd
W4IEN
w4ien@...
678-488-9655

11589. RE: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 02:44:35 UTC
From: Charles Moizeau
Topic: 11584 Message: 11589

Steve,

As an ardent low-band QRPer, I'm excited at your news.

Do please put me down on your list for this forthcoming offering.

This will, I sure hope, be the first of your transceivers for me to assemble since the ATS-3(no suffix).

TU in advance.

72,

Charles, W2SH

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Fri, 23 Aug 2013 01:18:21 +0000
Subject: [AT_Sprint] New 160/80 meter transceiver design - kit

Hey Gang,

With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.

The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.

As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.

Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.

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It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.

For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!

Steve KD1JV

11590. RE: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 02:53:57 UTC
From: Dale Putnam
Topic: 11584 Message: 11590

Put me down for one too, please! Looks like a good one to me.

Have a great day,

--... ...--
Dale - WC7S in Wy

11591. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 03:03:05 UTC
From: Ronald M. Brown
Topic: 11584 Message: 11591

Hi Steve,

Please add me to the list; should be an interesting rig to build and operate.

Thanks,

Ron Brown
N3CAZ

On Aug 22, 2013, at 9:18 PM, "Steven" <steve.kd1jv@...> wrote:

> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
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> It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.
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> For this project I'll take reservations for those who DEFINATELY want one. Let me know
Thanks!

>
> Steve KD1JV
>
>

11592. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 03:11:35 UTC
From: zigmundrat
Topic: 11584 Message: 11592

Hi Steve-

Sounds like a nice little project. And it would provide a home for one of the AD9850 modules I have left :) Please put me down for one.

Paul - K9MR

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
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> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV

>

11593. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 03:23:23 UTC
From: k1thp
Topic: 11584 Message: 11593

Hi Steve,
Sounds like a fun winter project. I have antennas that work on both bands so put me down for one. Maybe it will encourage be more QRP activity in the 160 Contests.
72,
Dave K1THP

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
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>
> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV

>

11594. RE: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 03:23:31 UTC
From: William Schmidt
Topic: 11584 Message: 11594

Steve,
Put me down for one. Can it tune the 600 meter band when we get the final green flag from the FCC?
Bill, WV1N

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Fri, 23 Aug 2013 01:18:21 +0000
Subject: [AT_Sprint] New 160/80 meter transceiver design - kit

Hey Gang,

With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.

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For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!

Steve KD1JV

11595. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 03:38:03 UTC
From: ab6wl
Topic: 11584 Message: 11595

Hi Steve,

I definitely want one.

Thank you,

Earle
AB6WL

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
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> Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.
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>
> For this project I'll take reservations for those who DEFINATELY want one. Let me know
Thanks!

>
> Steve KD1JV
>

11596. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 03:46:07 UTC
From: Tiana Hall
Topic: 11584 Message: 11596

On Aug 22, 2013, at 7:18 PM, "Steven" <steve.kd1jv@...> wrote:

> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
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> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
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> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV
>
>

11597. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 04:03:26 UTC
From: Johnny
Topic: 11584 Message: 11597

Ge Steve
Count me in on the trial run build, please.
Johnny AC0BQ
jomatlock@...
Tnx 72

Sent from my iPad

On Aug 22, 2013, at 8:18 PM, "Steven" <steve.kd1jv@...> wrote:

> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
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> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
>
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> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
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> Steve KD1JV
>
>

11598. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 04:36:53 UTC
From: Michael O'Bannon
Topic: 11584 Message: 11598

Steve,

Please put me on the list for one of the 160/80 meter rigs.

Thanks for the new design!

72,
Michael KD4SGN
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
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> As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.
>
> Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.
>
> For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :
>
> http://kd1jv.qrpradio.com/mbdc.pdf
>
> It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.
>
> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV
>

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> ------------------------------------
>
> Yahoo! Groups Links
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>
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11599. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 04:45:27 UTC
From: Gabriel Moreno
Topic: 11584 Message: 11599

You can put me on the list as well

Gabriel N6OSB

Sent from my iPhone

On Aug 22, 2013, at 6:18 PM, "Steven" <steve.kd1jv@...> wrote:

> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
>
> As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.
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> Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.
>
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> It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.
>
> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV
>

>

11600. RE: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 06:27:42 UTC
From: Bob Citronberg
Topic: 11584 Message: 11600

I replied to you steve, but just in case it does?not show ?please add me to the list if im not there now,,thanks, bob citronberg ki4ght

?

-----Original Message-----
From: Dale Putnam
Sent: Aug 22, 2013 10:53 PM
To: AT Sprint
Subject: RE: [AT_Sprint] New 160/80 meter transceiver design - kit

?

Put me down for one too, please!?
Looks like a good one to me.

Have a great day,
?
?
--... ...-- Dale - WC7S in Wy
?
?;

11601. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 07:24:02 UTC
From: Heilman, William Clay
Topic: 11584 Message: 11601

You have my interest.

Clayton

I am out and about!!!

On Aug 22, 2013, at 18:18, "Steven" <steve.kd1jv@...<mailto:steve.kd1jv@...>> wrote:

Hey Gang,

With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.

The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.

As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.

Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com<http://qrpkits.com> "premium" aluminum case.

For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :

http://kd1jv.qrpradio.com/mbdc.pdf

It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.

For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!

Steve KD1JV

11602. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 10:39:48 UTC
From: John Evans
Topic: 11584 Message: 11602

Steve - count me in for one.

Question - can you provide better pictures so we are sure which module and LCD you are using?

Tnx es 72 - john - n0hj

11603. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 11:45:12 UTC
From: Richard F5VJD
Topic: 11584 Message: 11603

Hi Steve

I'm up for one please.

Cheers

Richard F5VJD

On 23/08/2013 03:18, Steven wrote:
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about
> this time I was hoping to offer a simple 160/80 meter rig, but due to
> technical difficultes - basically a good idea which didn't really work
> - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use
> just didn't cut it. That problem has been solved by the Chinese. For
> the unbelievable low price of about $6.00 and $1.00 postage, you can
> buy direct from China an actual AD9850 DDS board. With one of these in
> hand as the core, I preceeded to reserect the 160/80 rig project.
>
> As a bonus to using a DDS chip capable of up to 40 MHz operation, the
> receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so
> all modes can be received. However, no preselector is included, and it
> seems it's happy to hear signals which are at the 3d harmomic of the
> LO, but that's a minor issue. When used on 160 or 80, the transmitter
> LPF solves that problem.
>
> Anyway, here's the deal. I'm thinking of making 50 board kits
> available. This design uses all through hole parts so it can
> eventually be marketed to the unwashed masses. I haven't figured out a
> price, but I think $65 is a good number for now, with you buying the
> 9850 board and a 2X16 LCD direct from China for about another $10.00
> or less. That would save me from making that investment. The board is
> sized to fit into a qrpkits.com "premium" aluminum case.
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> For more info, a preliminary manual (less construction details, as I
> haven't gotten that far yet) is available here :
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> http://kd1jv.qrpradio.com/mbdc.pdf
>
> It contains some photos of my prototype, the schematic, board layout
> and operating instructions. I'm not quite done tweaking the circuit or
> the firmware, but I should have that done fairly soon. At this point I

> don't see any show stoppers.
>
> For this project I'll take reservations for those who DEFINATELY want
> one. Let me know Thanks!
>
> Steve KD1JV
>
>

11604. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 11:53:27 UTC
From: David
Topic: 11584 Message: 11604

Add me to the list too please Steve.
Dave VK2DDJ

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>

11605. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 11:56:51 UTC
From: Shoji Iwasaki
Topic: 11584 Message: 11605

Hello Steve,

I want one of your 160/80m kits.
Please add me your list.

72
Shoji Iwasaki, JR1KDA/AG6GT

On Fri, 23 Aug 2013 01:18:21 -0000
"Steven" <steve.kd1jv@...> wrote:

> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
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> As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.
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> Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.
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> For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :
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> It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.
>
> For this project I'll take reservations for those who DEFINATELY want one. Let me know
Thanks!

>
> Steve KD1JV
>
>
>
>

--
Shoji Iwasaki <ktm@...-net.ne.jp>

11606. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 12:01:04 UTC
From: ae5xae5x
Topic: 11584 Message: 11606

Hi Steve,

Please put me down for one!

John AE5X

11607. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 01:37:46 UTC
From: PERRY ABERNETHY
Topic: 11584 Message: 11607

Definitely want one. K5PCA , PERRY ABERNETHY desertyachter at gmail dot com.

On Thu, Aug 22, 2013 at 7:18 PM, Steven <steve.kd1jv@...> wrote:

> **
>
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this
> time I was hoping to offer a simple 160/80 meter rig, but due to technical
> difficultes - basically a good idea which didn't really work - I was unable
> to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just
> didn't cut it. That problem has been solved by the Chinese. For the
> unbelievable low price of about $6.00 and $1.00 postage, you can buy direct
> from China an actual AD9850 DDS board. With one of these in hand as the
> core, I preceeded to reserect the 160/80 rig project.
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> As a bonus to using a DDS chip capable of up to 40 MHz operation, the
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> it's happy to hear signals which are at the 3d harmomic of the LO, but
> that's a minor issue. When used on 160 or 80, the transmitter LPF solves
> that problem.
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> good number for now, with you buying the 9850 board and a 2X16 LCD direct
> from China for about another $10.00 or less. That would save me from making
> that investment. The board is sized to fit into a qrpkits.com "premium"
> aluminum case.
>
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> haven't gotten that far yet) is available here :
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> http://kd1jv.qrpradio.com/mbdc.pdf
>
> It contains some photos of my prototype, the schematic, board layout and
> operating instructions. I'm not quite done tweaking the circuit or the
> firmware, but I should have that done fairly soon. At this point I don't
> see any show stoppers.

>
> For this project I'll take reservations for those who DEFINATELY want one.
> Let me know Thanks!
>
> Steve KD1JV
>
>
>

11608. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 03:36:21 UTC
From: gary_w5rej
Topic: 11584 Message: 11608

Steve,

Put me down for one as well. I definitely want one.

Gary/w5rej

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
>
> As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.
>
> Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.
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> For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :
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>
> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV
>

11609. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 05:54:08 UTC
From: rob2williams@btinternet.com
Topic: 11609 Message: 11609
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

11610. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 07:24:39 UTC
From: RayS
Topic: 11584 Message: 11610

Yes please Steve

73 Ray, G3XLG

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
>
>>
> For this project I'll take reservations for those who DEFINATELY want one. Let me know
Thanks!
>
> Steve KD1JV
>

11611. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 08:37:52 UTC
From: Michael Johnson
Topic: 11584 Message: 11611

Count me in please,
Mike, G0BPU
----- Original Message -----
From: Steven
To: AT_Sprint@yahoogroups.com
Sent: Friday, August 23, 2013 2:18 AM
Subject: [AT_Sprint] New 160/80 meter transceiver design - kit

Hey Gang,

With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.

The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.

As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.

Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.

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For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!

Steve KD1JV

11612. RE: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 11:26:55 UTC
From: Harry White
Topic: 11584 Message: 11612

Hi Steve,

I'd like to buy one.

Harry White

K1RSA

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven
Sent: Thursday, August 22, 2013 9:18 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] New 160/80 meter transceiver design - kit

Hey Gang,

With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.

The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.

As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.

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It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.

For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!

Steve KD1JV

11613. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 12:23:07 UTC
From: Peter Martin
Topic: 11584 Message: 11613

Yes, I'm game to try one too!
Pete
G4ISJ
http://g4isj.blogspot.co.uk

11614. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 13:31:45 UTC
From: Richard Weinbaum
Topic: 11584 Message: 11614

I would love to have one....thank you

Richard Weinbaum
KK4RR

On Aug 22, 2013, at 21:18, "Steven" <steve.kd1jv@...> wrote:

> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
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> As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.
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> Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.
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>
> http://kd1jv.qrpradio.com/mbdc.pdf
>
> It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.
>
> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV
>
>

11615. New radio

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 13:46:27 UTC
From: Robert
Topic: 11615 Message: 11615

I would like to reserve one of your new 80/160 kits

Bert
N0YJ

11616. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 14:08:54 UTC
From: tdelozie
Topic: 11584 Message: 11616

Please put me down for one.
KF5NWC

Thank you!

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
>
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> Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.
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> For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :
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> http://kd1jv.qrpradio.com/mbdc.pdf
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> It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.
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> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV
>

11617. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 14:12:11 UTC
From: w9ya
Topic: 11584 Message: 11617

Please put me down as committed to purchasing a unit as well.

Mny tnxs om es vy 72 de Bob w9ya.

On Thursday, August 22, 2013, Steven <steve.kd1jv@...> wrote:
>
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
>
> As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.
>
> Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.
>
> For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :
>
> http://kd1jv.qrpradio.com/mbdc.pdf
>
> It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.
>

> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV
>
>
> Reply via web post Reply to sender Reply to group Start a New Topic Messages in this topic (1)
> Recent Activity:

11618. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 14:21:26 UTC
From: chris
Topic: 11584 Message: 11618

--- In AT_Sprint@yahoogroups.com, "Steven" <steve.kd1jv@...> wrote:
>
> Hey Gang,
Hi Steve

Me too please . . . .

chris

G8UJB

> For this project I'll take reservations for those who DEFINATELY want one. Let me know
Thanks!
>
> Steve KD1JV
>

11619. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 15:15:02 UTC
From: wmorrill@...
Topic: 11584 Message: 11619

Steve-
Add me to the list.
Wendell
N7WM

> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this
> time I was hoping to offer a simple 160/80 meter rig, but due to technical
> difficultes - basically a good idea which didn't really work - I was
> unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just
> didn't cut it. That problem has been solved by the Chinese. For the
> unbelievable low price of about $6.00 and $1.00 postage, you can buy
> direct from China an actual AD9850 DDS board. With one of these in hand as
> the core, I preceeded to reserect the 160/80 rig project.
>
> As a bonus to using a DDS chip capable of up to 40 MHz operation, the
> receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all
> modes can be received. However, no preselector is included, and it seems
> it's happy to hear signals which are at the 3d harmomic of the LO, but
> that's a minor issue. When used on 160 or 80, the transmitter LPF solves
> that problem.
>
> Anyway, here's the deal. I'm thinking of making 50 board kits available.
> This design uses all through hole parts so it can eventually be marketed
> to the unwashed masses. I haven't figured out a price, but I think $65 is
> a good number for now, with you buying the 9850 board and a 2X16 LCD
> direct from China for about another $10.00 or less. That would save me
> from making that investment. The board is sized to fit into a qrpkits.com
> "premium" aluminum case.
>
> For more info, a preliminary manual (less construction details, as I
> haven't gotten that far yet) is available here :
>
> http://kd1jv.qrpradio.com/mbdc.pdf
>
> It contains some photos of my prototype, the schematic, board layout and
> operating instructions. I'm not quite done tweaking the circuit or the
> firmware, but I should have that done fairly soon. At this point I don't
> see any show stoppers.
>
> For this project I'll take reservations for those who DEFINATELY want one.
> Let me know Thanks!

>
> Steve KD1JV
>
>

11620. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 15:35:43 UTC
From: Clive Marshall
Topic: 11584 Message: 11620

Steve,

Please reserve one of these for me.

Thanks,
Clive, KC2DSH

From: Steven <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Thursday, August 22, 2013 6:18 PM
Subject: [AT_Sprint] New 160/80 meter transceiver design - kit

Hey Gang,

With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.

The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.

As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.

Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.

For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :

http://kd1jv.qrpradio.com/mbdc.pdf

It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.

For this project I'll take reservations for those who DEFINATELY want one. Let me know
Thanks!

Steve KD1JV

11621. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 16:13:08 UTC
From: Adrian Hart
Topic: 11584 Message: 11621

Hi Steve

Please put me down for one. I hope I am not too late!

Cheers
Adrian
MM0DHY

11622. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 17:02:48 UTC
From: Steven Weber
Topic: 11584 Message: 11622

Yep, you just need to add a LPF to keep the broadcast stations out of it, due to it hearing stations at the 3d harmonic.

Steve,
Put me down for one. Can it tune the 600 meter band when we get the final green flag from the FCC?
Bill, WV1N

11623. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 17:54:08 UTC
From: Steven Weber
Topic: 11584 Message: 11623

Wow, thanks for the great responce. All 50 inital boards are now spoken for. I'll try to get back to everyone with a confermation soon.

But now I have to get really busy and clean up the last details, order boards, order parts, finish the instructions, ect, and that will take a few weeks.

The AD9850 module and LCD are available from ebay from a number of sellers. I just sort of picked one at random from the listings which showed up on the first page. Just search for AD9850 DDS and it will come up. There are actually two versions, you want the skinny one with a single row of pins along the long sides.

I'm not sure exactly who I bought mine from, there seems to be at least three different names referenced. It took about 10 days to get it from China.

Any 16 character, 2 line LCD will work. The one I used has white characters on a blue background. You might get one from the same seller as the DDS module. Because thier cheap, you might want to get two, the one I have has some missing collums which might be why thier so cheap.

Thats all for now, back to work!

72, Steve KD1JV

11624. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 18:07:02 UTC
From: dl2arl
Topic: 11584 Message: 11624

I would also want to / love to have one please, if I am not too late. Did I miss this one? Was just qrl with no internet access trying to save the pennys needed for the dx shippment.
73 Razvan DL2ARL

11625. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 18:45:22 UTC
From: Andy Gulbrandsen
Topic: 11584 Message: 11625

Hi Steve,

Missing rows and columns is ususally a symptom of contamination between the board/glass and the elastomer interconnet. I have had success removing the bezal and cleaning all surfaces with IPA.

Regards,

Andrew Gulbrandsen
KE7AHJ

Steven Weber <steve.kd1jv@gmail.com> wrote:Wow, thanks for the great responce. All 50 inital boards are now spoken for.
I'll try to get back to everyone with a confermation soon.

But now I have to get really busy and clean up the last details, order boards, order parts, finish the instructions, ect, and that will take a few weeks.

The AD9850 module and LCD are available from ebay from a number of sellers. I just sort of picked one at random from the listings which showed up on the first page. Just search for AD9850 DDS and it will come up. There are actually two versions, you want the skinny one with a single row of pins along the long sides.

I'm not sure exactly who I bought mine from, there seems to be at least three different names referenced. It took about 10 days to get it from China.

Any 16 character, 2 line LCD will work. The one I used has white characters on a blue background. You might get one from the same seller as the DDS module. Because thier cheap, you might want to get two, the one I have has some missing collums which might be why thier so cheap.

Thats all for now, back to work!

72, Steve KD1JV

11626. MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 19:35:39 UTC
From: Barry N1EU
Topic: 11626 Message: 11626

Tenergy makes a 500mAh 9V rechargeable Li-Ion battery. Can anyone give an educated estimate of the MTR power output powered by such a battery over a 60 minute operation that consisted of calling cq's and having qso's (i.e., a SOTA activation)?.

Thanks & 73,
Barry N1EU

11627. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 19:45:02 UTC
From: Chris Fowler
Topic: 11626 Message: 11627

On 08/23/2013 03:35 PM, Barry N1EU wrote:
>
>
> Tenergy makes a 500mAh 9V rechargeable Li-Ion battery. Can anyone give
> an educated estimate of the MTR power output powered by such a battery
> over a 60 minute operation that consisted of calling cq's and having
> qso's (i.e., a SOTA activation)?.

No MTR here, but a 9V Akaline on the ATS-4a gave me about 2w into a dummy load. The 9v surprised me so I ordered a small 9v enclosed box with a switch and leads from China via eBay. I just need to add the correct power connector for the ATS4. I'll probably do power poles since I have one of those for the rig.

Like this:
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=271245030885

I like that you found an Li-Ion as 9V. It does not have the capacity of the Alkaline, but it does not have the drop-off curve either. You may get shorter operation, but at 2w for the duration.

Does it have under voltage and over current protection built in?

73,
Chris k4fh

11628. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 19:56:45 UTC
From: Barry N1EU
Topic: 11626 Message: 11628

Here's the battery info:
http://www.all-battery.com/Li-ionRechargeableBattery-30593.aspx

I was hoping for an estimate on how the initial power output (2W?) would
sag over a period of 60 mins operating with the 500mAh 9V battery.

I think I'm going to order a couple of the batteries and give them a try.

Thanks & 73,
Barry N1EU

On Fri, Aug 23, 2013 at 7:45 PM, Chris Fowler <k4fh@...> wrote:

> On 08/23/2013 03:35 PM, Barry N1EU wrote:
>
>>
>>
>> Tenergy makes a 500mAh 9V rechargeable Li-Ion battery. Can anyone give
>> an educated estimate of the MTR power output powered by such a battery
>> over a 60 minute operation that consisted of calling cq's and having
>> qso's (i.e., a SOTA activation)?.
>>
>
> No MTR here, but a 9V Akaline on the ATS-4a gave me about 2w into a dummy
> load. The 9v surprised me so I ordered a small 9v enclosed box with a
> switch and leads from China via eBay. I just need to add the correct
> power connector for the ATS4. I'll probably do power poles since I have
> one of those for the rig.
>
> Like this:
> http://cgi.ebay.com/ws/**eBayISAPI.dll?ViewItem&item=**271245030885<http://cgi.ebay.com/
ws/eBayISAPI.dll?ViewItem&item=271245030885>
>
> I like that you found an Li-Ion as 9V. It does not have the capacity of
> the Alkaline, but it does not have the drop-off curve either. You may get
> shorter operation, but at 2w for the duration.
>
> Does it have under voltage and over current protection built in?
>
> 73,
> Chris k4fh
>

11629. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 20:00:04 UTC
From: Chris Fowler
Topic: 11626 Message: 11629

On 08/23/2013 03:56 PM, Barry N1EU wrote:
>
>
> Here's the battery info:
> http://www.all-battery.com/Li-ionRechargeableBattery-30593.aspx
>
> I was hoping for an estimate on how the initial power output (2W?) would
> sag over a period of 60 mins operating with the 500mAh 9V battery.
>

That was based on a 9+v battery. Looking at those specs it seems the
nominal voltage of that battery is 7.7v. 8.6v max charge. So not
really "9v", or I could be reading incorrectly.

73,
Chris k4fh

11630. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 20:02:03 UTC
From: TJ Campie
Topic: 11626 Message: 11630

Yeah, as Chris noted, that isn't really a 9v battery. I would think that
would limit your output below 2w for sure.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Aug 23, 2013 at 3:00 PM, Chris Fowler <k4fh@...> wrote:

> **
>
>
> On 08/23/2013 03:56 PM, Barry N1EU wrote:
> >
> >
> > Here's the battery info:
> > http://www.all-battery.com/Li-ionRechargeableBattery-30593.aspx
> >
> > I was hoping for an estimate on how the initial power output (2W?) would
> > sag over a period of 60 mins operating with the 500mAh 9V battery.
> >
>
> That was based on a 9+v battery. Looking at those specs it seems the
> nominal voltage of that battery is 7.7v. 8.6v max charge. So not
> really "9v", or I could be reading incorrectly.
>
> 73,
> Chris k4fh
>
>
>

11631. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 19:48:49 UTC
From: Mike Crownover
Topic: 11626 Message: 11631

Just a guess, start with 9V and 2-3 watts end with 8V and 1-2 watts.

If you use a tuner, another strategy, tune using a 9V alkaline, then plug in your 500mAh 12v Li-* battery and have between 4 and 5 watts for the whole hour.

73,

Mike AD5A

----- Original Message -----

Tenergy makes a 500mAh 9V rechargeable Li-Ion battery. Can anyone give an educated estimate of the MTR power output powered by such a battery over a 60 minute operation that consisted of calling cq's and having qso's (i.e., a SOTA activation)?.

Thanks & 73,
Barry N1EU

11632. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 20:07:59 UTC
From: Chris Fowler
Topic: 11626 Message: 11632

On 08/23/2013 04:02 PM, TJ Campie wrote:
>
>
> Yeah, as Chris noted, that isn't really a 9v battery. I would think
> that would limit your output below 2w for sure.

Unfortunately to go Li-Ion you have to get a bigger battery. A pack
like this:

http://www.all-battery.com/li-ion18650111v2600mahrechargeablebatterypackwithpcbprotectionandhitecconnector.aspx

Need a charger as well.

I think a few people using these rigs are using Li-Po packs.

73,
Chris k4fh

11633. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 20:10:19 UTC
From: TJ Campie
Topic: 11626 Message: 11633

I recently upgraded my MTR setup to a 850mAh 3S (11.1v nominal) battery:
http://www.w0ea.us/2013/08/upgrading-mtr-we-need-more-power.html

At full charge I was getting 6w out into a dummy load but 20m was a little
touchy with oscillations. I think I might have installed an incorrect
capacitor in the output filter, but otherwise its working well, and will
last for a very very long time.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Aug 23, 2013 at 3:07 PM, Chris Fowler <k4fh@...> wrote:

> On 08/23/2013 04:02 PM, TJ Campie wrote:
> >
> >
> > Yeah, as Chris noted, that isn't really a 9v battery. I would think
> > that would limit your output below 2w for sure.
>
> Unfortunately to go Li-Ion you have to get a bigger battery. A pack
> like this:
>
>
> http://www.all-battery.com/li-ion18650111v2600mahrechargeablebatterypackwithpcbprotectio
nandhitecconnector.aspx
>
> Need a charger as well.
>
> I think a few people using these rigs are using Li-Po packs.
>
> 73,
> Chris k4fh
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

11634. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 20:12:46 UTC
From: Chris Fowler
Topic: 11626 Message: 11634

I just bought one of these:

http://www.ebay.com/itm/Plastic-Battery-Storage-Case-Box-Holder-for-3-x-18650-Black-with-6-Wire-Leads-/390637835176?pt=LH_DefaultDomain_0&hash=item5af3d453a8

I happen to have a flash light that uses 18650s and I can use that as a charger.

The only issue is that I need batteries with PCB protection built in. That adds a couple mm to the length.

That auction does not spec dimensions so I do not know if it will fit in an Altoids tin.

73,
Chris k4fh

11635. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 20:14:38 UTC
From: Chris Fowler
Topic: 11626 Message: 11635

On 08/23/2013 04:10 PM, TJ Campie wrote:
>
>
> I recently upgraded my MTR setup to a 850mAh 3S (11.1v nominal) battery:
> http://www.w0ea.us/2013/08/upgrading-mtr-we-need-more-power.html

Do you use one of these?

http://www.ebay.com/itm/2In1-Lipo-Battery-Low-Voltage-Tester-1S-8S-Buzzer-Alarm-New-W1-/390648176423?pt=Radio_Control_Parts_Accessories&hash=item5af4721f27

LiPo monitor and buzzer.

73,
Chris k4fh

11636. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 20:16:19 UTC
From: TJ Campie
Topic: 11626 Message: 11636

No, but I assume it just monitors the voltage for you? I have got into the habit of checking my voltages on the MTR pretty regularly but I have not really used mine yet so I'm not sure what kind of life to expect out of it.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Fri, Aug 23, 2013 at 3:14 PM, Chris Fowler <k4fh@...> wrote:

> On 08/23/2013 04:10 PM, TJ Campie wrote:
>
>>
>>
>> I recently upgraded my MTR setup to a 850mAh 3S (11.1v nominal) battery:
>> http://www.w0ea.us/2013/08/**upgrading-mtr-we-need-more-**power.html<http://www.w0ea.us/2013/08/upgrading-mtr-we-need-more-power.html>
>>
>
> Do you use one of these?
>
> http://www.ebay.com/itm/2In1-**Lipo-Battery-Low-Voltage-**
> Tester-1S-8S-Buzzer-Alarm-New-**W1-/390648176423?pt=Radio_**
> Control_Parts_Accessories&**hash=item5af4721f27<http://www.ebay.com/itm/2In1-Lipo-Battery-Low-Voltage-Tester-1S-8S-Buzzer-Alarm-New-W1-/390648176423?pt=Radio_Control_Parts_Accessories&hash=item5af4721f27>
>
> LiPo monitor and buzzer.
>
> 73,
> Chris k4fh
>

11637. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 20:23:59 UTC
From: Chris Fowler
Topic: 11626 Message: 11637

On 08/23/2013 04:10 PM, TJ Campie wrote:
> I recently upgraded my MTR setup to a 850mAh 3S (11.1v nominal) battery:
> http://www.w0ea.us/2013/08/upgrading-mtr-we-need-more-power.html

I believe a typical Alkaline 9v battery is 900mAh. If you are experienced with operating with that battery then you'll have a good idea how long this one will last. You'll just get a bit more output.

73,
Chris k4fh

11638. Re: MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 20:37:28 UTC
From: Colin
Topic: 11626 Message: 11638

Barry,

I use a 2S 1000mAh LiPo, its not an awful lot bigger in volume than a PP3 block battery. I can easily do a SOTA activation until the pile up runs dry. I haven't tried doing multiple activations between charges but the recharge time has always been very short suggesting that I haven't used very much capacity.

My battery cost £7 (~$10US).

I even worked a US station with MTR#131 whilst using the battery ;)

http://m0cgh.blogspot.co.uk/2012/11/buckden-pike-remembrance-sunday.html

72,
Colin
M1BUU

11639. Re: [] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 20:50:51 UTC
From: cloud runner
Topic: 11639 Message: 11639

My SOTA activations with an MTR seem to last about 30 minutes. I average about 4 mAH per QSO, based upon what the charger tells me when recharging my 3S LiPO's. 3S are 3 cells rated 3.7 volts, but fully charged, the 3 cells are about 12.5 volts. Most of the discharge is between 11.1 and 11.6 volts, however, and I am getting 5 watts out at 11 volts. Measured voltage drop upon key down is only a few hundreths of a volt.

If I am going out for just one SOTA peak in an activation, I use my 180 mAH 3S LiPO. It is only about half depleted during an activation with an MTR, typically 30 QSO's. The battery is much smaller than a typical nine volt battery, weighs 23 grams (that's less than an ounce), recharges 500 times, and costs $2.85.

If I am going to do two or three peaks, then I take my 300 mAH battery which weighs 38 grams.

Can't imagine using the nine volt batteries. Cost alone is the deterrent, but why sacrifice so much power out?

73, Fred - KT5X

aka WS0TA

11640. Re: MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 21:01:33 UTC
From: Colin
Topic: 11626 Message: 11640

A typical Alkaline 9V is nearer to 500mAh - 600mAh, cheaper ones even less. As far as power sources for transceivers, they aren't very good, but hey, it's fun to experiment and carrying a 9v battery as a back-up could be a great 'get out of jail card'.

73,
Colin, M1BUU

> I believe a typical Alkaline 9v battery is 900mAh. If you are
> experienced with operating with that battery then you'll have a good
> idea how long this one will last. You'll just get a bit more output.
>
> 73,
> Chris k4fh
>

11641. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 21:36:10 UTC
From: Steven Weber
Topic: 11584 Message: 11641

When ever I try that, I loose them all - I've learned to leave well enough alone on those things!
Steve KD1JV

Missing rows and columns is ususally a symptom of contamination between the board/glass and the elastomer interconnet. I have had success removing the bezal and cleaning all surfaces with IPA.

Regards,

Andrew Gulbrandsen
KE7AHJ

11642. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 23:23:11 UTC
From: Yannick
Topic: 11584 Message: 11642

Andy,

This is not related to Steve's kit but what you told interests me a lot.
I have a Kenwood TH79 handheld that showed missing lines from the first weeks I brought it in VietNam. I guess the tropical climate was not up to his taste.
I opened it several time and found some kind of foam between the LCD screen and the PCB. I cleaned bot surfaces and the foam with ethanol. For a few hours it was back working but soon showed missing lines (almost all right now).

What to you use for cleaning? Do you know where I can find a replacement foam for this?

73,
Yan - XV4Y.
---
http://qscope.org/

--- In AT_Sprint@yahoogroups.com, Andy Gulbrandsen <hill_cruiser@...> wrote:
>
> Hi Steve,
>
> Missing rows and columns is ususally a symptom of contamination between the board/glass and the elastomer interconnet. I have had success removing the bezal and cleaning all surfaces with IPA.
>
> Regards,
>
> Andrew Gulbrandsen
> KE7AHJ
>
> Steven Weber <steve.kd1jv@...> wrote:Wow, thanks for the great responce. All 50 inital boards are now spoken for.
> I'll try to get back to everyone with a confermation soon.
>
> But now I have to get really busy and clean up the last details, order
> boards, order parts, finish the instructions, ect, and that will take a few
> weeks.
>
> The AD9850 module and LCD are available from ebay from a number of sellers.
> I just sort of picked one at random from the listings which showed up on the
> first page. Just search for AD9850 DDS and it will come up. There are
> actually two versions, you want the skinny one with a single row of pins
> along the long sides.
>
> I'm not sure exactly who I bought mine from, there seems to be at least
> three different names referenced. It took about 10 days to get it from
> China.

>
> Any 16 character, 2 line LCD will work. The one I used has white characters
> on a blue background. You might get one from the same seller as the DDS
> module. Because thier cheap, you might want to get two, the one I have has
> some missing collums which might be why thier so cheap.
>
> Thats all for now, back to work!
>
> 72, Steve KD1JV
>

11643. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-23 23:28:19 UTC
From: Yannick
Topic: 11584 Message: 11643

H Steve,

I know I am loo late on that.
However I'd like to make you know that I am interested for the next run.
Having a simple but good performing general coverage receiver interests me for my in-laws farm.
My father in law is an old man and long time listener of the BBC. He was a radio-man during the war and I'd like to leave a multi-mode radio for him.
All the spare transceivers I have are too complex to use for him just turn them on and find some morse code...

Thanks for designing this new rig.

73,
Yan - XV4Y.

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Wow, thanks for the great responce. All 50 inital boards are now spoken for.
> I'll try to get back to everyone with a confermation soon.
>
> But now I have to get really busy and clean up the last details, order
> boards, order parts, finish the instructions, ect, and that will take a few
> weeks.
>
> The AD9850 module and LCD are available from ebay from a number of sellers.
> I just sort of picked one at random from the listings which showed up on the
> first page. Just search for AD9850 DDS and it will come up. There are
> actually two versions, you want the skinny one with a single row of pins
> along the long sides.
>
> I'm not sure exactly who I bought mine from, there seems to be at least
> three different names referenced. It took about 10 days to get it from
> China.
>
> Any 16 character, 2 line LCD will work. The one I used has white characters
> on a blue background. You might get one from the same seller as the DDS
> module. Because thier cheap, you might want to get two, the one I have has
> some missing collums which might be why thier so cheap.
>
> Thats all for now, back to work!
>
> 72, Steve KD1JV
>

11644. Re: [AT_Sprint] Digest Number 2070

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 00:22:14 UTC
From: William S. Hogin
Topic: 11644 Message: 11644

Put me down for one of 80/160 kits if they have not run out. I know they go fast.

Scott, N2ZEN

11645. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 04:00:03 UTC
From: Steven Weber
Topic: 11584 Message: 11645

After reviewing the numbers, it only makes sense to do 100 of these rigs and reduce the price to $50.00

Therefore, I can add 35 more builders. Anyone else want to give it a go? I guess I need to put my long wire higher up in the trees before winter sets in for sure :)

Steve KD1JV

11646. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 04:55:05 UTC
From: Gil WA5YKK
Topic: 11584 Message: 11646

Steve,

I'll give one a "go", see what happens with "palm sized 80 meters", so
add me to the list.

73's
Gil WA5YKK

On 8/23/2013 11:00 PM, Steven Weber wrote:
>
> After reviewing the numbers, it only makes sense to do 100 of these
> rigs and
> reduce the price to $50.00
>
> Therefore, I can add 35 more builders. Anyone else want to give it a
> go? I
> guess I need to put my long wire higher up in the trees before winter
> sets
> in for sure :)
>
> Steve KD1JV
>
>
> <http://groups.yahoo.com/group/AT_Sprint/post;_ylc=X3oDMTJyM3U2NWZpBF9TAzk3MzU5NzE0BGdyc
ElkAzE4MDM1NzIzBGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAMxMTY0NQRzZWMDZnRyBHNsawNycGx5BHN0aW1lAzE
zNzczMTY4MTE-?act=reply&messageNum=11645>
>
>
>
>
>

11647. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 06:46:22 UTC
From: Gary Marklund
Topic: 11584 Message: 11647

Steve,

Count me in for one.

Gary

--
73,

Gary KJ7RT
Sun City, AZ
Fists #14460 NAQCC #3709

11648. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 07:39:38 UTC
From: Heilman, William Clay
Topic: 11584 Message: 11648

I want to make sure you have me as a yes.

Clayton

I am out and about!!!

On Aug 23, 2013, at 21:01, "Steven Weber" <steve.kd1jv@...<mailto:steve.kd1jv@...>> wrote:

After reviewing the numbers, it only makes sense to do 100 of these rigs and reduce the price to $50.00

Therefore, I can add 35 more builders. Anyone else want to give it a go? I guess I need to put my long wire higher up in the trees before winter sets in for sure :)

Steve KD1JV

11649. Tenna Dipper

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 02:32:01 UTC
From: Marten
Topic: 11649 Message: 11649

Forgive me if this is the wrong place to ask, but I've been trying to find an instruction manual for the Tenna Dipper (original). The 4sqrp website no longer has the files available.

I looked up the Stinger singer manual, but the annunciator seems to be different between the two:

Stinger Singer: E -> L -> F -> ER -> LR -> (rpt)

Tenna Dipper: M -> K -> MR -> KR

Anyway, I figured someone here would know the details of each mode, and how do the dip switches work? I assume only one should be "on" at a time?

Thanks!
Marten
(happy ATS-III operator)

11650. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 07:52:26 UTC
From: USYSLINK
Topic: 11584 Message: 11650

Hi Steve,

Please put my name on the list. Thanks,

Victor

On Aug 22, 2013, at 6:18 PM, "Steven" <steve.kd1jv@...> wrote:

> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
>
> As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.
>
> Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.
>
> For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :
>
> http://kd1jv.qrpradio.com/mbdc.pdf
>
> It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.
>
> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV
>

>

11651. Re: [AT_Sprint] Tenna Dipper

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 13:33:54 UTC
From: WA0ITP
Topic: 11649 Message: 11651

GM Marten,

It's still available http://www.4sqrp.com/TennaDipper.php near the bottom of the page.

The docmentation for all our retired kits is still on the web site. Enjoy the Dipper, it a great little project and a useful accessory.

Real radios weigh less than a pound.
I love this radio stuff !
72 WA0ITP
www.wa0itp.com
www.4sqrp.com

----- Original Message -----
From: "Marten" <mbeels@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Friday, August 23, 2013 9:32 PM
Subject: [AT_Sprint] Tenna Dipper

| Forgive me if this is the wrong place to ask, but I've been trying to find an instruction manual for the Tenna Dipper (original). The 4sqrp website no longer has the files available.
|
| I looked up the Stinger singer manual, but the annunciator seems to be different between the two:
|
| Stinger Singer: E -> L -> F -> ER -> LR -> (rpt)
|
| Tenna Dipper: M -> K -> MR -> KR
|
| Anyway, I figured someone here would know the details of each mode, and how do the dip switches work? I assume only one should be "on" at a time?
|
| Thanks!
| Marten
| (happy ATS-III operator)
|
|
|
| ---
|
| Yahoo! Groups Links
|
|

|

11652. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 15:04:08 UTC
From: dl2arl
Topic: 11584 Message: 11652

Yippi-ai-ey am I glad to be on the list, after the short run has been widened to 100 (guess I'm #51).

I will take it with a smile and a handkiss, even if it has no iambic electronic Keyer and any memory at all. But with the MTR, what I am badly missing is the BEACON function. I know that it was hard to squeeze the code into the processor so that there were hardly 3 code words left after all was compiled. I also remember that Steve wanted to eliminate the PSK31 function because of this tightness of available memory with the second run: boy am I glad he did not. But the Beacon function is gone.

What do I need it for? When hiking, first thing I do is look for a good spot to erect the antenna. Then I set it up. If it does not work as planned, I walk further and look for another place.

Only after having set-up the antenna and the MTR running, I think of lunch, take a slice of bread out of the "rucksack" and open a bottle of beer ;-) Having the bread in one hand, the bottle in the other, there is barely any hand left to light up a cigarette or take care of the keyer (-; .

This is why I like the ATS-Series that has a beacon function. I can let the beacon call on a free frequency and I take care of the lunch meanwhile. I have a small speaker and if somebody answers, I wipe up one hand in my T-shirt and switch from the bread to the keyer.

With no beacon in my MTR, I have to press the call button every other minute or so. Not only that, but having smeary fingers from the lunch...

Just thinking loud, 73 and thanks for the great offer, I will take it anyhow, with or w/o beacon!
Razvan DL2ARL

--- In AT_Sprint@yahoogroups.com, "dl2arl" <dl2arl@...> wrote:
>
> I would also want to / love to have one please, if I am not too late. Did I miss this one? Was just qrl with no internet access trying to earn the pennys needed for the dx shippment.
> 73 Razvan DL2ARL
>

11653. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 16:44:15 UTC
From: Steven Weber
Topic: 11584 Message: 11653

yes, your a yes. Thanks
----- Original Message -----
From: Heilman, William Clay
To: <AT_Sprint@yahoogroups.com>
Cc: AT_Sprint@yahoogroups.com
Sent: Saturday, August 24, 2013 3:39 AM
Subject: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

I want to make sure you have me as a yes.

Clayton

I am out and about!!!

On Aug 23, 2013, at 21:01, "Steven Weber" <steve.kd1jv@...> wrote:

After reviewing the numbers, it only makes sense to do 100 of these rigs and reduce the price to $50.00

Therefore, I can add 35 more builders. Anyone else want to give it a go? I guess I need to put my long wire higher up in the trees before winter sets in for sure :)

Steve KD1JV

11654. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 16:50:22 UTC
From: Steven Weber
Topic: 11584 Message: 11654

> Yippi-ai-ey am I glad to be on the list, after the short run has been
> widened to 100 (guess I'm #51).
>
Actually Razvan, your #54 on the list :)

> I will take it with a smile and a handkiss, even if it has no iambic
> electronic Keyer and any memory at all. But with the MTR, what I am badly
> missing is the BEACON function.

Okay, I guess I can add a beacon function to this rig. Was thinking it might be handy anyway. Maybe with QRSS keying speed too. Using this rig on the VLF bands has been in the back of my mind as I designed it.

I still have a few weeks in which I can continue to tweak the firmware and add features until I run out of memory. The chip is only 70.2% full at the moment....

73, Steve KD1JV

11655. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 16:51:20 UTC
From: c6alk
Topic: 11584 Message: 11655

Hi Steve:
Please reserve one for me also.

Brian K7RE

--- In AT_Sprint@yahoogroups.com, USYSLINK <usyslink@...> wrote:
>
> Hi Steve,
>
> Please put my name on the list. Thanks,
>
> Victor
>
> On Aug 22, 2013, at 6:18 PM, "Steven" <steve.kd1jv@...> wrote:
>
> > Hey Gang,
> >
> > With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
> >
> > The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
> >
> > As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.
> >
> > Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.
> >
> > For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :
> >
> > http://kd1jv.qrpradio.com/mbdc.pdf
> >
> > It contains some photos of my prototype, the schematic, board layout and operating

instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.
> >
> > For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
> >
> > Steve KD1JV
> >
> >
>

11656. RE: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 18:52:51 UTC
From: Mike Baker
Topic: 11584 Message: 11656

OK Steve, Count me in. I need a good tool to get me interested in 160. ;>)

Mike Baker K7DD

<mailto:K7dd@...> K7dd@...

All QSO's are uploaded to LOTW.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of Steven Weber
Sent: Friday, August 23, 2013 9:00 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

After reviewing the numbers, it only makes sense to do 100 of these rigs and

reduce the price to $50.00

Therefore, I can add 35 more builders. Anyone else want to give it a go? I
guess I need to put my long wire higher up in the trees before winter sets
in for sure :)

Steve KD1JV

11657. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 20:41:57 UTC
From: wi1p@...
Topic: 11584 Message: 11657

Hello Steve,

Count me on the list for the 80/160 rig.

72,wi1p,Greg

In a message dated 8/24/2013 4:15:07 P.M. Eastern Daylight Time,
steve.kd1jv@... writes:

Hey Gang,

With winter on the horizen, you might remember that last year about this
time I was hoping to offer a simple 160/80 meter rig, but due to technical
difficultes - basically a good idea which didn't really work - I was unable
to offer it.

The problem was the makeshift software DDS/PLL I was trying to use just
didn't cut it. That problem has been solved by the Chinese. For the
unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from
China an actual AD9850 DDS board. With one of these in hand as the core, I
preceeded to reserect the 160/80 rig project.

As a bonus to using a DDS chip capable of up to 40 MHz operation, the
receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes
can be received. However, no preselector is included, and it seems it's
happy to hear signals which are at the 3d harmomic of the LO, but that's a
minor issue. When used on 160 or 80, the transmitter LPF solves that problem.

Anyway, here's the deal. I'm thinking of making 50 board kits available.
This design uses all through hole parts so it can eventually be marketed to
the unwashed masses. I haven't figured out a price, but I think $65 is a
good number for now, with you buying the 9850 board and a 2X16 LCD direct
from China for about another $10.00 or less. That would save me from making
that investment. The board is sized to fit into a qrpkits.com "premium"
aluminum case.

For more info, a preliminary manual (less construction details, as I
haven't gotten that far yet) is available here :

http://kd1jv.qrpradio.com/mbdc.pdf

It contains some photos of my prototype, the schematic, board layout and
operating instructions. I'm not quite done tweaking the circuit or the
firmware, but I should have that done fairly soon. At this point I don't see any
show stoppers.

For this project I'll take reservations for those who DEFINATELY want one.
Let me know Thanks!

Steve KD1JV

11658. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 20:53:18 UTC
From: wi1p@...
Topic: 11584 Message: 11658

Hi Steve,

Please make sure I am on your list for one unit.
72,wi1p,Greg

In a message dated 8/24/2013 4:23:07 P.M. Eastern Daylight Time,
steve.kd1jv@... writes:

After reviewing the numbers, it only makes sense to do 100 of these rigs
and
reduce the price to $50.00

Therefore, I can add 35 more builders. Anyone else want to give it a go? I
guess I need to put my long wire higher up in the trees before winter sets
in for sure :)

Steve KD1JV

11659. MTR DC power plug?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-25 00:45:51 UTC
From: Gil
Topic: 11659 Message: 11659

Hello,

Does anyone have the Radio Shack letter reference for the MTR power plug (171-3219-EX)?

Thanks,

Gil.

11660. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 16:53:15 UTC
From: USYSLINK
Topic: 11584 Message: 11660

Hi Steven,

Just want to confirm with you I am
on the list.

Regards,
de BV2CH
Victor

On Aug 24, 2013, at 9:44 AM, "Steven Weber" <steve.kd1jv@gmail.com> wrote:

> yes, your a yes. Thanks
> ----- Original Message -----
> From: Heilman, William Clay
> To: <AT_Sprint@yahoogroups.com>
> Cc: AT_Sprint@yahoogroups.com
> Sent: Saturday, August 24, 2013 3:39 AM
> Subject: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit
>
> I want to make sure you have me as a yes.
>
> Clayton
>
> I am out and about!!!
>
> On Aug 23, 2013, at 21:01, "Steven Weber" <steve.kd1jv@...> wrote:
>
>
> After reviewing the numbers, it only makes sense to do 100 of these rigs and
> reduce the price to $50.00
>
> Therefore, I can add 35 more builders. Anyone else want to give it a go? I
> guess I need to put my long wire higher up in the trees before winter sets
> in for sure :)
>
> Steve KD1JV
>
>
>

11661. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 18:38:05 UTC
From: cablepair
Topic: 11584 Message: 11661

Steve,
I would absolutely like to have one.
Thanks
Jeff - KD0TNH

11662. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-25 00:14:24 UTC
From: Clark Macaulay
Topic: 11584 Message: 11662

Steve, please add me to the list, also.

72,

Clark WU4B

Sent from my iPad

On Aug 24, 2013, at 12:44 PM, "Steven Weber" <steve.kd1jv@...> wrote:

> yes, your a yes. Thanks
> ----- Original Message -----
> From: Heilman, William Clay
> To: <AT_Sprint@yahoogroups.com>
> Cc: AT_Sprint@yahoogroups.com
> Sent: Saturday, August 24, 2013 3:39 AM
> Subject: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit
>
> I want to make sure you have me as a yes.
>
> Clayton
>
> I am out and about!!!
>
> On Aug 23, 2013, at 21:01, "Steven Weber" <steve.kd1jv@...> wrote:
>
>
> After reviewing the numbers, it only makes sense to do 100 of these rigs and
> reduce the price to $50.00
>
> Therefore, I can add 35 more builders. Anyone else want to give it a go? I
> guess I need to put my long wire higher up in the trees before winter sets
> in for sure :)
>
> Steve KD1JV
>
>
>

11663. RE: [AT_Sprint] MTR DC power plug?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-25 01:16:46 UTC
From: CyclingSoldier
Topic: 11659 Message: 11663
Attachments: 2 described; binary payloads are missing from this source WARC

No, but I found it anyway!

http://www.parts-express.com/pe/showdetl.cfm?partnumber=120-090

73 de KE4LWT

Jack

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Gil
Sent: Saturday, August 24, 2013 8:46 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] MTR DC power plug?

Hello,

Does anyone have the Radio Shack letter reference for the MTR power plug (171-3219-EX)?

Thanks,

Gil.

11664. Re: Tenna Dipper

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-25 02:31:59 UTC
From: Marten
Topic: 11649 Message: 11664

Thank you. I was apparently looking at this page:

http://4sqrp.com/kits/td/td.htm

which has links that don't work, but I found them at the page you refer to. Very helpful group, received many helpful responses.

It is a fantastic tool, immensely useful.

Marten
KC8HZM

--- In AT_Sprint@yahoogroups.com, "WA0ITP" <wa0itp@...> wrote:
>
> GM Marten,
>
> It's still available http://www.4sqrp.com/TennaDipper.php near the bottom of
> the page.
>
> The docmentation for all our retired kits is still on the web site. Enjoy the
> Dipper, it a great little project and a useful accessory.
>
> ----------
> Real radios weigh less than a pound.
> I love this radio stuff !
> 72 WA0ITP
> www.wa0itp.com
> www.4sqrp.com
>
>
>
>
> ----- Original Message -----
> From: "Marten" <mbeels@...>
> To: <AT_Sprint@yahoogroups.com>
> Sent: Friday, August 23, 2013 9:32 PM
> Subject: [AT_Sprint] Tenna Dipper
>
>
> | Forgive me if this is the wrong place to ask, but I've been trying to find an
> instruction manual for the Tenna Dipper (original). The 4sqrp website no longer
> has the files available.
> |
> | I looked up the Stinger singer manual, but the annunciator seems to be
> different between the two:
> |

> | Stinger Singer: E -> L -> F -> ER -> LR -> (rpt)
> |
> | Tenna Dipper: M -> K -> MR -> KR
> |
> | Anyway, I figured someone here would know the details of each mode, and how do
> the dip switches work? I assume only one should be "on" at a time?
> |
> | Thanks!
> | Marten
> | (happy ATS-III operator)
> |
> |
> |
> | ----------
> |
> | Yahoo! Groups Links
> |
> |
> |
>

11665. Re: [AT_Sprint] Tenna Dipper

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-24 13:05:47 UTC
From: David Bixler
Topic: 11649 Message: 11665

Hello Marten:

Here is the link to the Tenna Dipper on the 4SQRP web site:

http://www.4sqrp.com/TennaDipper.php

Scroll down for the down-loadable documentation.

73, Dave W0CH

http://www.4sqrp.com/ <http://www.4sqrp.com/TennaDipper.php>

On 08/23/2013 09:32 PM, Marten wrote:
> Forgive me if this is the wrong place to ask, but I've been trying to find an instruction manual for the Tenna Dipper (original). The 4sqrp website no longer has the files available.
>
> I looked up the Stinger singer manual, but the annunciator seems to be different between the two:
>
> Stinger Singer: E -> L -> F -> ER -> LR -> (rpt)
>
> Tenna Dipper: M -> K -> MR -> KR
>
> Anyway, I figured someone here would know the details of each mode, and how do the dip switches work? I assume only one should be "on" at a time?
>
> Thanks!
> Marten
> (happy ATS-III operator)
>
>
>
> ---
>
> Yahoo! Groups Links
>
>
>
>

11666. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-25 03:56:19 UTC
From: k1thp
Topic: 11609 Message: 11666

Hi Steve, Did I make the cut?
73,
Dave K1THP
--- In AT_Sprint@yahoogroups.com, "rob2williams@..." <rob2williams@...> wrote:
>
> Hi Steve,
>
> Please could you add my name to the list.
>
> 73
>
> Rob
> G0PEB
>
> Sent from my HTC
>
> ----- Reply message -----
> From: "Steven" <steve.kd1jv@...>
> Date: Fri, Aug 23, 2013 02:18
> Subject: [AT_Sprint] New 160/80 meter transceiver design - kit
> To: <AT_Sprint@yahoogroups.com>
>
> Hey Gang,
>
> With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.
>
> The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.
>
> As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.
>
> Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.

>
> For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :
>
> http://kd1jv.qrpradio.com/mbdc.pdf
>
> It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.
>
> For this project I'll take reservations for those who DEFINATELY want one. Let me know Thanks!
>
> Steve KD1JV
>

11667. RE: [AT_Sprint] MTR DC power plug?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-25 05:10:04 UTC
From: Rob May
Topic: 11659 Message: 11667

This will probably work:
http://www.radioshack.com/product/index.jsp?productId=2102598
Catalog #: 274-1532
4.0mm x 1.7mm power plug.

73,
Rob
NV5E

To: AT_Sprint@yahoogroups.com
From: gil@...
Date: Sun, 25 Aug 2013 00:45:51 +0000
Subject: [AT_Sprint] MTR DC power plug?

Hello,

Does anyone have the Radio Shack letter reference for the MTR power plug (171-3219-EX)?

Thanks,

Gil.

11668. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-25 13:13:53 UTC
From: John Shadle
Topic: 11584 Message: 11668

Steve,
I had sent an email directly to you. Just wanted to make sure I was on "the list".
-john W4PAH

11669. Re: [AT_Sprint] MTR DC power plug?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-25 16:09:26 UTC
From: Paul Womble
Topic: 11659 Message: 11669

I have a couple of power cables made up with those and they work ok.

Paul K4FB

On 8/25/2013 1:10 AM, Rob May wrote:
>
> This will probably work:
> http://www.radioshack.com/product/index.jsp?productId=2102598
> *Catalog #:* 274-1532
> 4.0mm x 1.7mm power plug.
>
> 73,
> Rob
> NV5E

11670. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-26 04:55:26 UTC
From: Steven Weber
Topic: 11584 Message: 11670

Yes, no problem. Sorry I haven't been conferming the reservations, unless a direct question was asked, but be assured that if you sent it, I wrote it down.
Steve
Steve,
I had sent an email directly to you. Just wanted to make sure I was on "the list".
-john W4PAH

11671. 160/80 Meter Transceiver

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-26 03:52:34 UTC
From: Richard Govoni
Topic: 11671 Message: 11671

Steve:

I would like to try one also, if you have any left.

TNX

Richard Govoni VA3YT/VE3SHL

11672. Re: [AT_Sprint] New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-25 20:36:47 UTC
From: C WEAVING
Topic: 11584 Message: 11672

Hi Steve,

A Holiday weekend in the UK.

Just opened my e-mail account and saw your 160/80 meter news.

Hopefully I am not too late. Definitely want one.

73 Colin M3WCK

From: Steven <steve.kd1jv@...>
To: AT_Sprint@yahoogroups.com
Sent: Friday, August 23, 2013 2:18 AM
Subject: [AT_Sprint] New 160/80 meter transceiver design - kit

Hey Gang,

With winter on the horizen, you might remember that last year about this time I was hoping to offer a simple 160/80 meter rig, but due to technical difficultes - basically a good idea which didn't really work - I was unable to offer it.

The problem was the makeshift software DDS/PLL I was trying to use just didn't cut it. That problem has been solved by the Chinese. For the unbelievable low price of about $6.00 and $1.00 postage, you can buy direct from China an actual AD9850 DDS board. With one of these in hand as the core, I preceeded to reserect the 160/80 rig project.

As a bonus to using a DDS chip capable of up to 40 MHz operation, the receiver now tunes 0 to 40 MHz! It's a direct conversion detector, so all modes can be received. However, no preselector is included, and it seems it's happy to hear signals which are at the 3d harmomic of the LO, but that's a minor issue. When used on 160 or 80, the transmitter LPF solves that problem.

Anyway, here's the deal. I'm thinking of making 50 board kits available. This design uses all through hole parts so it can eventually be marketed to the unwashed masses. I haven't figured out a price, but I think $65 is a good number for now, with you buying the 9850 board and a 2X16 LCD direct from China for about another $10.00 or less. That would save me from making that investment. The board is sized to fit into a qrpkits.com "premium" aluminum case.

For more info, a preliminary manual (less construction details, as I haven't gotten that far yet) is available here :

http://kd1jv.qrpradio.com/mbdc.pdf

It contains some photos of my prototype, the schematic, board layout and operating instructions. I'm not quite done tweaking the circuit or the firmware, but I should have that done fairly soon. At this point I don't see any show stoppers.

For this project I'll take reservations for those who DEFINATELY want one. Let me know
Thanks!

Steve KD1JV

11673. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-26 15:51:53 UTC
From: george@...
Topic: 11584 Message: 11673

Hello Steve,

I think I may be on the list but if not, please put me on.

Thanks, George WA1PDY

On 24.08.2013 00:00, Steven Weber wrote:
> After reviewing the numbers, it only makes sense to do 100 of these
> rigs and
> reduce the price to $50.00
>
> Therefore, I can add 35 more builders. Anyone else want to give it a
> go? I
> guess I need to put my long wire higher up in the trees before
> winter sets
> in for sure :)
>
> Steve KD1JV
>

11674. 160/80 Meter Transciever

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-26 15:46:01 UTC
From: Gene Miller
Topic: 11674 Message: 11674

If it is not to late I would like one.

TNX

Gene Miller, K1USR

11675. ATS-4B frequency problems.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-26 20:03:30 UTC
From: Mike Olbrisch
Topic: 11675 Message: 11675

Steve,

Looks like the ATS-4B is out for delivery. Should be in your hands this evening. Due to a schedule change at work, my SOTA climb to Anthony's Nose has been cancelled. So there is no real hurry on the radio. Use it to test and locate this pesky little problem.

To refresh your memory:

The first time I had it happen was on 30m, and you got it fixed for me before I had to pack up for Germany. I only used it about 3 times in Germany, and it worked great. But earlier this month I was going to try it in the Spartan Sprint. 20m is the band to start with there. And somehow the display went to _ _ _ . _ _ _ . _ 47 on 20m, and had a continuous side-tone in the ear buds.

I played around with it, trying turning it on and off, flipping switches and even trying switch combinations. Somehow I got it to read 65.000.097. From there, I used DFE. From 65.000.097, then step down, then DFE to 64.000.097 again, step after step until getting it to 14.060.097 MHz. the last digits are now either .047 or .097.

You replied:

The firmware in the files section will have the latest version which would clear up the problem for now and hopefully keep it for occurring again. If you can't reflash the chip, I would be happy to do it for you for return postage.

Sounds like I should review the code. If it happened a second time, then it hasn't been fixed. The usual cause of unexplained and random problems like that is an interrupt happening at just the wrong time and some piece of data

being corrupted in the process for some reason. In theory, that should not happen.

Steve.

Thank you sir.....

Vy73 - Mike - KD5KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

11676. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-26 21:51:52 UTC
From: pks57
Topic: 11584 Message: 11676

Hi Steve,

I'd also like to reserve/purchase one if I'm not yet too late.

mni tnx es vy73,

Peter HB9TVK

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> After reviewing the numbers, it only makes sense to do 100 of these rigs and
> reduce the price to $50.00
>
> Therefore, I can add 35 more builders. Anyone else want to give it a go? I
> guess I need to put my long wire higher up in the trees before winter sets
> in for sure :)
>
> Steve KD1JV
>

11677. Re: [AT_Sprint] ATS-4B frequency problems.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-27 02:04:03 UTC
From: Steven Weber
Topic: 11675 Message: 11677

Yes, got it today and know what the issue is - hope I can find it!
> Steve,
>
> Looks like the ATS-4B is out for delivery. Should be in your hands this
> evening. Due to a schedule change at work, my SOTA climb to Anthony's
> Nose
> has been cancelled. So there is no real hurry on the radio. Use it to
> test
> and locate this pesky little problem.
>
> To refresh your memory:
>
> The first time I had it happen was on 30m, and you got it fixed for me
> before I had to pack up for Germany. I only used it about 3 times in
> Germany, and it worked great. But earlier this month I was going to try
> it
> in the Spartan Sprint. 20m is the band to start with there. And somehow
> the display went to _ _ _ . _ _ _ . _ 47 on 20m, and had a continuous
> side-tone in the ear buds.
>
> I played around with it, trying turning it on and off, flipping switches
> and
> even trying switch combinations. Somehow I got it to read 65.000.097.
> From
> there, I used DFE. From 65.000.097, then step down, then DFE to
> 64.000.097
> again, step after step until getting it to 14.060.097 MHz. the last
> digits
> are now either .047 or .097.
>
> You replied:
>
> The firmware in the files section will have the latest version which would
> clear up the problem for now and hopefully keep it for occurring again. If
> you can't reflash the chip, I would be happy to do it for you for return
> postage.
>
> Sounds like I should review the code. If it happened a second time, then
> it
> hasn't been fixed. The usual cause of unexplained and random problems like
> that is an interrupt happening at just the wrong time and some piece of
> data
>
> being corrupted in the process for some reason. In theory, that should not
> happen.

>
> Steve.
>
> Thank you sir.....
>
>
> Vy73 - Mike - KD5KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/
>
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

11678. RE: [AT_Sprint] ATS-4B frequency problems.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-27 02:16:07 UTC
From: Mike Olbrisch
Topic: 11675 Message: 11678

At your leisure sir - we have no plans to travel overseas for 2 years. We do have some dog shows in Nov, but the FT-817 will do fine for that if the ATS-4b is not done.

The return postage label should be in the box.

Thank you very much sir.

Vy73 - Mike - KD5KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Monday, August 26, 2013 20:04
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] ATS-4B frequency problems.

Yes, got it today and know what the issue is - hope I can find it!
> Steve,
>
> Looks like the ATS-4B is out for delivery. Should be in your hands this
> evening. Due to a schedule change at work, my SOTA climb to Anthony's
> Nose
> has been cancelled. So there is no real hurry on the radio. Use it to
> test
> and locate this pesky little problem.
>
> To refresh your memory:
>
> The first time I had it happen was on 30m, and you got it fixed for me
> before I had to pack up for Germany. I only used it about 3 times in
> Germany, and it worked great. But earlier this month I was going to try
> it
> in the Spartan Sprint. 20m is the band to start with there. And somehow
> the display went to _ _ _ . _ _ _ . _ 47 on 20m, and had a continuous
> side-tone in the ear buds.
>
> I played around with it, trying turning it on and off, flipping switches
> and
> even trying switch combinations. Somehow I got it to read 65.000.097.
> From
> there, I used DFE. From 65.000.097, then step down, then DFE to
> 64.000.097

> again, step after step until getting it to 14.060.097 MHz. the last
> digits
> are now either .047 or .097.
>
> You replied:
>
> The firmware in the files section will have the latest version which would
> clear up the problem for now and hopefully keep it for occurring again. If
> you can't reflash the chip, I would be happy to do it for you for return
> postage.
>
> Sounds like I should review the code. If it happened a second time, then
> it
> hasn't been fixed. The usual cause of unexplained and random problems like
> that is an interrupt happening at just the wrong time and some piece of
> data
>
> being corrupted in the process for some reason. In theory, that should not
> happen.
>
> Steve.
>
> Thank you sir.....
>
>
> Vy73 - Mike - KD5KC.
> El Paso, Texas - DM61rt.
> W5-SOTA Association Manager.
> NA-SOTA info: http://na-sota.org/
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> Yahoo! Groups Links
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Yahoo! Groups Links

11679. WTB: ATS4b

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-27 11:50:47 UTC
From: Barry N1EU
Topic: 11679 Message: 11679

If anyone has an ATS4b with 17M that they would consider parting with, please drop me an email off-list. Alternately, I would also consider a Weber Tribander with 17M.

Thanks & 72,
Barry N1EU

11680. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-28 01:05:49 UTC
From: Steven Weber
Topic: 11584 Message: 11680

People have been asking what DDS module and LCD to order. Here are two possible sources, there are others. The links illustrate the type of each I laid the board out to use. These are so darn cheap you might want to buy two to have a spare or to use for something else. Who knows how long they will be available for.

http://www.ebay.com/itm/1pcs-AD9850-DDS-Signal-Generator-Module-/261012679149?pt=LH_DefaultDomain_0&hash=item3cc59169ed

http://www.ebay.com/itm/HD44780-1602-LCD-Module-Display-Anzeigen-2X16-Zeichen-Z8-/321113801675?pt=LH_DefaultDomain_0&hash=item4ac3dfc3cb

Steve KD1JV

11681. Re: [AT_Sprint] ATS-4b blind display - help!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-28 01:40:15 UTC
From: Steven Weber
Topic: 11579 Message: 11681

> My beloved ATS-4b did not survive falling down to the ground from the
> table. The display is blank, the TX/RX still works, the display shows no
> vislible damage. Backlight OK.

Guido - were you able to fix this?

Steve KD1JV

11682. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-28 15:09:55 UTC
From: Steven Weber
Topic: 11584 Message: 11682

> Hi Steve, Did I make the cut?
> 73,
> Dave K1THP

Yes, your on the list, along with everyone else who sent me an email saying they wanted to be on the list! A lot of you responded to the group and not to me direct, which complicates getting back to you directly. But since I'm sure everyone wants to know for sure if they should order the DDS and LCD, I suppose I do need to confirm everyone, where ever the email back might show up. And if it does show up on in the group, you probably should send me a message direct so I don't have to figure out your email address later.

73, Steve KD1JV

11683. 160/80 meter progress report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-28 16:37:47 UTC
From: Steven Weber
Topic: 11683 Message: 11683

Hi Gang,

Okay, my list has almost 100 names on it now, so will now cut off addtional reservations. Once the dust settles, there might be a few left over and if that is the case, maybe I'll put them on ebay and see what thier really worth, hi.

Hendricks kits is interested in taking over the project when this inital run is done, in which case it would be a complete kit with punched case and all that, so there is that option for later, especially for the mechanically challenged who don't want to hack out thier own enclosure.

In the mean time, the circuit design and board layout is about ready to be put to bed. I had to eliminate the RF preamp and kick up the audio gain to compensate. The preamp was causing too much intermod. It sounds much better now with more then enough audio to drive a small speaker. Another couple of days of testing and I should be able to call it good to go. There's probably only another 80 hours of work left before I can start kitting...

73, Steve KD1JV

11684. Re: [AT_Sprint] 160/80 meter progress report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-28 16:48:25 UTC
From: Clark Macaulay
Topic: 11683 Message: 11684

When do you want payment?

Clark WU4B

Sent from my iPhone

On Aug 28, 2013, at 12:37 PM, "Steven Weber" <steve.kd1jv@...> wrote:

> Hi Gang,
>
> Okay, my list has almost 100 names on it now, so will now cut off addtional
> reservations. Once the dust settles, there might be a few left over and if
> that is the case, maybe I'll put them on ebay and see what thier really
> worth, hi.
>
> Hendricks kits is interested in taking over the project when this inital run
> is done, in which case it would be a complete kit with punched case and all
> that, so there is that option for later, especially for the mechanically
> challenged who don't want to hack out thier own enclosure.
>
> In the mean time, the circuit design and board layout is about ready to be
> put to bed. I had to eliminate the RF preamp and kick up the audio gain to
> compensate. The preamp was causing too much intermod. It sounds much better
> now with more then enough audio to drive a small speaker. Another couple of
> days of testing and I should be able to call it good to go. There's probably
> only another 80 hours of work left before I can start kitting...
>
> 73, Steve KD1JV
>
>

11685. Re: [AT_Sprint] 160/80 meter progress report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-28 17:45:35 UTC
From: Steven Weber
Topic: 11683 Message: 11685

Will let you know when everything is ready to go - maybe 3 weeks? I ordered some parts from China so depending on how long they take to get here will be one of the major determing factors...
Steve
When do you want payment?

Clark WU4B

11686. Re: [AT_Sprint] 160/80 meter progress report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-28 17:46:25 UTC
From: Bob Cutter
Topic: 11683 Message: 11686

Please try to get Doug to offer a case only!

72, Bob KIØG

On Aug 28, 2013, at 9:37 AM, "Steven Weber" <steve.kd1jv@...> wrote:

> Hi Gang,
>
> Okay, my list has almost 100 names

11687. Re: 160/80 meter progress report

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-28 18:04:30 UTC
From: Paul Mateer
Topic: 11683 Message: 11687

If you want some REAL field testing, send a 160m unit to Jerry WB9Z. He's one of the BIG GUN 160m guys :)

--
Paul Mateer, AA9GG
Elan Engineering Corp.
www.elanengr.com
NAQCC 3123, SKCC 4628, FPQRP 2003

11688. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-29 07:38:44 UTC
From: Manfred Reinhardt
Topic: 11584 Message: 11688

Hi Steven
thank you for this information
i could order a DDS (3) :-))
But
it is not possible to order a display They don t ship it to germany

any recommendations for a second brand ?

thank you
regards
Manfred

Am 28.08.2013, 03:05 Uhr, schrieb Steven Weber <steve.kd1jv@...>:

> People have been asking what DDS module and LCD to order. Here are two
> possible sources, there are others. The links illustrate the type of
> each I laid the board out to use. These are so darn cheap you might want
> to buy two to have a spare or to use for something else. Who knows how
> long they will be available for.
>
> http://www.ebay.com/itm/1pcs-AD9850-DDS-Signal-Generator-Module-/261012679149?pt=LH_Defa
ultDomain_0&hash=item3cc59169ed
>
> http://www.ebay.com/itm/HD44780-1602-LCD-Module-Display-Anzeigen-2X16-Zeichen-Z8-/321113
801675?pt=LH_DefaultDomain_0&hash=item4ac3dfc3cb
>
>
>
> Steve KD1JV

11689. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-29 08:33:29 UTC
From: Colin Evans
Topic: 11584 Message: 11689

Hi Manfred,

If you get really stuck, would it help to get display delivered to UK and
then I could forward it on to Germany?

72,
Colin M1BUU
MTR#131 & MTR#267
On Aug 29, 2013 8:38 AM, "Manfred Reinhardt" <dk1vd@...> wrote:

> Hi Steven
> thank you for this information
> i could order a DDS (3) :-))
> But
> it is not possible to order a display They don t ship it to germany
>
> any recommendations for a second brand ?
>
> thank you
> regards
> Manfred
>
>
> Am 28.08.2013, 03:05 Uhr, schrieb Steven Weber <steve.kd1jv@...>:
>
> > People have been asking what DDS module and LCD to order. Here are two
> > possible sources, there are others. The links illustrate the type of
> > each I laid the board out to use. These are so darn cheap you might want
> > to buy two to have a spare or to use for something else. Who knows how
> > long they will be available for.
> >
> >
> http://www.ebay.com/itm/1pcs-AD9850-DDS-Signal-Generator-Module-/261012679149?pt=LH_Defa
ultDomain_0&hash=item3cc59169ed
> >
> >
> http://www.ebay.com/itm/HD44780-1602-LCD-Module-Display-Anzeigen-2X16-Zeichen-Z8-/321113
801675?pt=LH_DefaultDomain_0&hash=item4ac3dfc3cb
> >
> >
> >
> > Steve KD1JV
>
>
> ------------------------------------
>

> Yahoo! Groups Links
>
>
>
>

11690. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-29 16:31:01 UTC
From: Steven Weber
Topic: 11584 Message: 11690

That's odd, wonder why? Maybe it's not lead free.

Any 2X16 LCD will work. The only difference is where the connections are located and the color of the back lighting. Yellow/green is common and I think easier on the eyes then the blue.

Steve KD1JV

> Hi Steven
> thank you for this information
> i could order a DDS (3) :-))
> But
> it is not possible to order a display They don t ship it to germany
>
> any recommendations for a second brand ?
>
> thank you
> regards
> Manfred

11691. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-29 16:55:42 UTC
From: Bob Cutter
Topic: 11584 Message: 11691

They say they will not ship to CO either??

72, Bob

On Aug 29, 2013, at 9:31 AM, "Steven Weber" <steve.kd1jv@...> wrote:

> That's odd, wonder why? Maybe it's not lead free.
>
> Any 2X16 LCD will work. The only difference is where the connections are
> located and the color of the back lighting. Yellow/green is common and I
> think easier on the eyes then the blue.
>
> Steve KD1JV
>
>
>> Hi Steven
>> thank you for this information
>> i could order a DDS (3) :-))
>> But
>> it is not possible to order a display They don t ship it to germany
>>
>> any recommendations for a second brand ?
>>
>> thank you
>> regards
>> Manfred
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

11692. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-29 17:09:02 UTC
From: Hank Greeb
Topic: 11584 Message: 11692

Hi, Steven:

I haven't been keeping up on details of your 160/80 rig.

Question: What parts are needed but NOT supplied?

Sorry, but I'm just "not with it."

72/73 de n8xx Hg
QRP >99.44% of the time

11693. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-29 17:13:07 UTC
From: Steven Weber
Topic: 11584 Message: 11693

Thier sending a couple of them to me in NH. Just got the notice that they have been shipped. The one I had finally died so I had to order a few more. I guess I hooked power up to it backwards one too many times.

Steve

> They say they will not ship to CO either??
>
> 72, Bob
>
> On Aug 29, 2013, at 9:31 AM, "Steven Weber" <steve.kd1jv@...> wrote:
>
>> That's odd, wonder why? Maybe it's not lead free.
>>
>> Any 2X16 LCD will work. The only difference is where the connections are
>> located and the color of the back lighting. Yellow/green is common and I
>> think easier on the eyes then the blue.
>>
>> Steve KD1JV
>>
>>
>>> Hi Steven
>>> thank you for this information
>>> i could order a DDS (3) :-))
>>> But
>>> it is not possible to order a display They don t ship it to germany
>>>
>>> any recommendations for a second brand ?
>>>
>>> thank you
>>> regards
>>> Manfred

11694. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-29 20:29:05 UTC
From: Steven Weber
Topic: 11584 Message: 11694

You need a AD9850 DDS module from China, a 2x16 lcd display, a box, knobs and mounting hardware. For specifics, read the posts. There have only been dozens messages about this in the last few days.

Hi, Steven:

I haven't been keeping up on details of your 160/80 rig.

Question: What parts are needed but NOT supplied?

Sorry, but I'm just "not with it."

72/73 de n8xx Hg
QRP >99.44% of the time

11695. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-29 21:19:05 UTC
From: Hank Greeb
Topic: 11584 Message: 11695

Thanks. I see your message about the source of the DDS/VFO and the display, but I can't findanything about the size ofa metal box tocontain the rig. I'massuming that a well shielded box would be necessary to prevent cross modulation fromhighpower AM Broadcast stationsin the area?

Note that I may be missing a message or two. I'm suffering from being "alpha tester" of a "new and improved yahoo groups" presentation, and can't do asearch on the web of an individual contributor nor search by words as in the past.

Lettuce prey that folks who are running yahoo groups take feedback fromthe users and go back to something sensible.

72/73 de n8xx Hg
QRP >99.44% of the time

On 8/29/2013 4:29 PM, Steven Weber wrote:
> There have only been dozens messages about this in the last few days.

11696. RE: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-29 21:57:17 UTC
From: Heilman, William Clay
Topic: 11584 Message: 11696
Attachments: 2 described; binary payloads are missing from this source WARC

Steve recommended this:

http://www.qrpkits.com/premiumcase.html

73 -de ke7ngo Clayton
WX MAA8108
NAQCC 5902
+1 (602) 300-3068

Compone Accomoda Supera
"It's only a mistake if you don't learn from it."

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Hank Greeb
Sent: Thursday, August 29, 2013 14:19
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Thanks. I see your message about the source of the DDS/VFO and the display, but I can't find anything about the size of a metal box to contain the rig. I'm assuming that a well shielded box would be necessary to prevent cross modulation from high power AM Broadcast stations in the area?

Note that I may be missing a message or two. I'm suffering from being "alpha tester" of a "new and improved yahoo groups" presentation, and can't do a search on the web of an individual contributor nor search by words as in the past.

Lettuce prey that folks who are running yahoo groups take feedback from the users and go back to something sensible.

72/73 de n8xx Hg
QRP >99.44% of the time
On 8/29/2013 4:29 PM, Steven Weber wrote:
There have only been dozens messages about this in the last few days.

11697. Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-29 23:56:37 UTC
From: Arthur Ripple
Topic: 11584 Message: 11697

both links worked fine from my computer the cell to e-bay was saying item
not available
sorry for the confusion
NS7E Arthur

11698. RE: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-30 03:56:16 UTC
From: <lee.hiers@...>
Topic: 11584 Message: 11698

Hank,

I've just been "neo-ized" myself.

First, no way Yahoo will go back. They recently did a similar change on Flickr, and there were *many* complaints there as well.

As far as the search ability goes, it's there. Kinda. I found this message by searching on "N8XX". The search box tries to be context-sensitive. If you're in a group, it searches within the group. If you're at your Groups home, it searches all the groups. I did break the search a couple times, but don't remember exactly what the circumstances were. What I haven't found is a way to search on message number. Surely it must be there, but I haven't found it.

Luckily, I primarily access the Groups through email, and use Gmail as my mail client, which allows threaded messages and lots of storage space.

I'm pretty sure this isn't a test, but a change that's being phased in. Probably within a week the changes will have been rolled out to all users. But that's a guess.

73 de Lee, AA4GA

--- In at_sprint@yahoogroups.com, <n8xx@...> wrote:

Note that I may be missing a message or two. I'm suffering from being "alpha tester" of a "new and improved yahoo groups" presentation, and can't do asearch on the web of an individual contributor nor search by words as in the past.

Lettuce prey that folks who are running yahoo groups take feedback from the users and go back to something sensible.

--- In at_sprint@yahoogroups.com, <n8xx@...> wrote:

Thanks. I see your message about the source of the DDS/VFO and the display, but I can't find anything about the size of a metal box to contain the rig. I'm assuming that a well shielded box would be necessary to prevent cross modulation from high power AM Broadcast stations in the area?

Note that I may be missing a message or two. I'm suffering from being "alpha tester" of a "new and improved yahoo groups" presentation, and can't do a search on the web of an individual contributor nor search by words as in the past.

Lettuce prey that folks who are running yahoo groups take feedback from the users and go back to something sensible.

72/73 de n8xx Hg
QRP >99.44% of the time

On 8/29/2013 4:29 PM, Steven Weber wrote:

There have only been dozens messages about this in the last few days.

11699. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-30 08:10:22 UTC
From: Gil WA5YKK
Topic: 11584 Message: 11699

Steve,

I just went through a mixed-up process of ordering two of each of those circuits, used PayPal, and played HE#* trying to change my ID on both eBay and PayPal, still can't figure out HOWTHEBLAZES to make changes in either machine. I don't see any "help" on either outfit, to talk to a human, and get both computers reset, so I'm giving up for now, no time left. I did bypass the previous "push a button and sail through", now it's calling me a thief!

If anyone has a clue about how to straighten out BOTH of those systems, change the codes I want to change, give me a note to my private address, kindly do not get mixed up with this Yahoo crop of circuits that got struck by lighting!

73's
Gil WA5YKK

On 8/27/2013 8:05 PM, Steven Weber wrote:
>
> People have been asking what DDS module and LCD to order. Here are two
> possible sources, there are others. The links illustrate the type of
> each I laid the board out to use. These are so darn cheap you might
> want to buy two to have a spare or to use for something else. Who
> knows how long they will be available for.
>
> http://www.ebay.com/itm/1pcs-AD9850-DDS-Signal-Generator-Module-/261012679149?pt=LH_Defa
ultDomain_0&hash=item3cc59169ed
>
> http://www.ebay.com/itm/HD44780-1602-LCD-Module-Display-Anzeigen-2X16-Zeichen-Z8-/321113
801675?pt=LH_DefaultDomain_0&hash=item4ac3dfc3cb
>
> Steve KD1JV
>
>

11700. MTR overlay for Altoids

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-30 21:49:47 UTC
From: <thompsen73@...>
Topic: 11700 Message: 11700

I'm finishing up my MTR this weekend and would like to find an existing .jpg file for an altoids overlay, 20 & 40M version. I don't see anything in the files section.

Thanks,
Todd
W7TAO

11701. Re: [AT_Sprint] MTR overlay for Altoids

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-31 02:44:04 UTC
From: Steven Weber
Topic: 11700 Message: 11701

There is one in the manual on page 16. Simply print the page (disable the fit to page option in page setup) and it will print to scale. If you want to get fancy, you can customize the drill diagram by using Paint or Draw or Word or Open Office, etc to add color, text or a picture.

This is what you do.

o. find the overlay diagram in the pdf file (page 16)
o. Click on the picture and save image
o. Open MS Paint from the accessories submenu
o. Paste the diagram into the window.
o. Use Paint to add color or text
o. Set page settings to Letter, landscape, scaling to 24% of original
o. print.

BTW, I still have MTR cases available, about 20 left...

Steve KD1JV

I'm finishing up my MTR this weekend and would like to find an existing .jpg file for an altoids overlay, 20 & 40M version. I don't see anything in the files section.

Thanks,
Todd
W7TAO

11702. Next MTR size?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-31 03:05:57 UTC
From: Gil G.
Topic: 11702 Message: 11702

Hello Mr. Weber,

I like my MTR so much, I can hardly wait for the next version!
6200 miles a couple days ago with Russia on 40m. Only 10V battery output; end-fed antenna.

So, will the next MTR still fit in an Altoids box or the same size box as the last batch?
I assume a little bigger probably..

I really like the idea of a built-in touch keyer.

Thank you for your continued efforts to make the best QRP radio even better!

Gil.
--
PGP Key: http://keskydee.com/gil.asc

11703. RE: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-31 09:53:50 UTC
From: <xv4y@...>
Topic: 11584 Message: 11703

Steve, group members,

I would like to make just one precision.
The display controller must be Hitachi HD44780 compatible (chinese SD44780 works great).
That's the case for most.
Some "very cheap" LCD use other controllers and are not compatible.

IC-Station (http://icstation.com) and chip_partner (on eBay) are reliable and ship to VN, so they must do the same to other "exotic" countries.
I second you recommending only the AD9850 with two pin rows, I had many problems with the others from various providers.

73,
Yan - XV4Y.
---
http://www.qscope.org/

--- In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

That's odd, wonder why? Maybe it's not lead free.

Any 2X16 LCD will work. The only difference is where the connections are
located and the color of the back lighting. Yellow/green is common and I
think easier on the eyes then the blue.

Steve KD1JV

> Hi Steven
> thank you for this information
> i could order a DDS (3) :-))
> But
> it is not possible to order a display They don t ship it to germany
>
> any recommendations for a second brand ?
>
> thank you
> regards
> Manfred

11704. Re: [AT_Sprint] MTR overlay for Altoids

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-31 04:01:32 UTC
From: Todd -W7TAO
Topic: 11700 Message: 11704

Thanks Steve. I completely overlooked that. I have the original case as well but this is my first altoids sized radio and I'm intrigued by the idea, plus it will be a fun conversation piece on the SOTA summits.

Todd
W7TAO

On Aug 30, 2013, at 7:44 PM, "Steven Weber" <steve.kd1jv@gmail.com> wrote:

> ☐
>
> There is one in the manual on page 16. Simply print the page (disable the fit to page option in page setup) and it will print to scale. If you want to get fancy, you can customize the drill diagram by using Paint or Draw or Word or Open Office, etc to add color, text or a picture.
>
> This is what you do.
>
> o. find the overlay diagram in the pdf file (page 16)
> o. Click on the picture and save image
> o. Open MS Paint from the accessories submenu
> o. Paste the diagram into the window.
> o. Use Paint to add color or text
> o. Set page settings to Letter, landscape, scaling to 24% of original
> o. print.
>
> BTW, I still have MTR cases available, about 20 left...
>
> Steve KD1JV
>
> I'm finishing up my MTR this weekend and would like to find an existing .jpg file for an altoids overlay, 20 & 40M version. I don't see anything in the files section.
>
> Thanks,
> Todd
> W7TAO
>
>

11705. Re: MTR overlay for Altoids

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-31 23:29:22 UTC
From: paradoxpete.pdm@...
Topic: 11700 Message: 11705

Todd,
I posted one in the photo section under G4ISJ and also posted the paint shop pro template in the files section.

73
Pete
G4ISJ
http://g4isj.blogspot.co.uk

11706. RE: Re: [AT_Sprint] MTR overlay for Altoids

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-02 23:50:40 UTC
From: <f_skinner@...>
Topic: 11700 Message: 11706

Steve, I would like to get a MTR case. Let me know what I need to do.

Todd, good luck with the altoid mods.

Frank
K0JQZ
f_skinner@yahoo.com

--- In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

ï»¿
There is one in the manual on page 16. Simply print the page (disable the fit to page option in page setup) and it will print to scale. If you want to get fancy, you can customize the drill diagram by using Paint or Draw or Word or Open Office, etc to add color, text or a picture.

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o. find the overlay diagram in the pdf file (page 16)

o. Click on the picture and save image

o. Open MS Paint from the accessories submenu

o. Paste the diagram into the window.

o. Use Paint to add color or text

o. Set page settings to Letter, landscape, scaling to 24% of original

o. print.

BTW, I still have MTR cases available, about 20 left...

Steve KD1JV

I'm finishing up my MTR this weekend and would like to find an existing .jpg file for an altoids overlay, 20 & 40M version. I don't see anything in the files section.

Thanks,
Todd
W7TAO

11707. Re: Re: [AT_Sprint] MTR overlay for Altoids

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-03 13:36:15 UTC
From: Scott Zastoupil
Topic: 11700 Message: 11707

Steve WG0AT also has a digital camo overlay in the MTR folder.

With the recent YahooGroup changes, the storage space limit went from 100MB to 2GB....so we have more room to store junk. :)

Scott, KB0KFX

From: "f_skinner@..." <f_skinner@...>
To: AT_Sprint@yahoogroups.com
Sent: Monday, September 2, 2013 6:50 PM
Subject: RE: Re: [AT_Sprint] MTR overlay for Altoids

Steve, I would like to get a MTR case. Let me know what I need to do.

Todd, good luck with the altoid mods.

Frank
K0JQZ
f_skinner@...

--- In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

ï»¿
There is one in the
manual on page 16. Simply print the page (disable the fit to page option in page setup) and it will print to scale. If you want to get fancy, you can
customize the drill diagram by using Paint or Draw or Word or Open
Office, etc to add color, text or a picture.

This is what you do.

o. find the overlay diagram in the pdf file (page
16)
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submenu
o. Paste the diagram into the window.
o. Use Paint to add color or text
o. Set page settings to Letter,
landscape, scaling to 24% of original
o. print.

BTW, I still have MTR cases available, about 20
left...

Steve KD1JV

I'm finishing up my MTR this
weekend and would like to find an existing .jpg file for an altoids overlay, 20
& 40M version. I don't see anything in the files section.

Thanks,
Todd
W7TAO

11708. Description of the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-03 22:59:52 UTC
From: ab6wl
Topic: 11708 Message: 11708

Hello Everyone,

Ever since I set out a year ago to learn how transceivers work by building a NorCal40A while reading David Rutledge's "The Electronics of Radio," I have preferred to build kits such as the MTR section by section, testing each section as I complete it before moving on to the next section. Starting back in June with the latest MTR, I followed this method of referring mainly to the schematic, and I made measurements and took photos of the changing printed circuit board and the measurements that I made. One important caveat when building a radio section by section is to read through the entire assembly manual first and note any modifications or discrepancies between the parts list, the assembly instructions, and the schematic in order to ensure proper installation of the components.

I have written a description of the function of each section, and, after getting Steve's Ok, because I felt that it was important that he knew what I was doing, I have uploaded 19 pdfs to a folder labeled AB6WL. I have titled this series of documents "Toward Understanding the MTR: and other Superheterodyne Receivers and Direct Synthesis Transmitters." The word "Toward..." means that I do not yet understand everything completely, but I am working on it. Each section's description is numbered according to the order in which I built it, so that the names of the 19 files are as follows --

1_Power Supply
2_MCU & Display
3_40 MHz Reference Oscillator
4_Direct Digital Synthesizer
5_DDS Local Oscillator Lowpass Filter
6_20m Transmit Lowpass Filter
7_40m Transmit Lowpass Filter
8_20m & 40m Receive Bandpass Filters
9_Transmit Receive MUTE Switch - Part 1
10_Receive RF Mixer
11_Receiver Intermediate Frequency Crystal Filter
12_Product Detector and Beat Frequency Oscillator
13_Receiver Audio Preamplifier
14_Audio Amplifier & Automatic Gain Control
15_Transmit Receive MUTE Switch - Part 2
16_Audio Bandpass Filter
17_Transmit Drivers
18_Finals V+ Shaping & TR Switch - Part 3
19_Finals Transistors Power Amplifier

My suggestion is that you print out the schematic of the MTR on pages 22 &b 23 of the manual so that you can refer to it while reading through my explanations of the different sections. You could even print out the schematics for any of the ATSs on this website, or of the Weber Tribander or PFR-3A on Doug Hendricks' website qrpkits.com to compare the variations in Steve's designs.

Steve's MTR, with both its simplicity and its sophistication on a two-sided printed circuit board smaller than a credit card, presents a great opportunity to understand the various parts of transceivers, especially when it involves classic circuit designs that go back to the beginning of the 20th century and World War I. My hope is that others like myself who are limited in their understanding can benefit from my explanations. I have certainly benefited from trying to explain the MTR, especially the trigonometric relationships of mixer signals described in Section 12 on the Product Detector. Steve has answered questions for me along the way, and I would also welcome from the group any advice on making corrections or clarifications.

73,

Earle
AB6WL

11709. Re: [AT_Sprint] Description of the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-03 23:27:21 UTC
From: John Evans
Topic: 11708 Message: 11709

Great job, Earle, Thanks so much for doing this.

72 - john - n0hj

On 9/3/2013 4:59 PM, ab6wl wrote:
>
> Hello Everyone,
>
> Ever since I set out a year ago to learn how transceivers work by
> building a NorCal40A while reading David Rutledge's "The Electronics
> of Radio," I have preferred to build kits such as the MTR section by
> section....
>
> I have written a description of the function of each section....
> 73,
>
> Earle
> AB6WL
>
>

11710. Re: [AT_Sprint] Description of the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-04 01:06:29 UTC
From: Gil WA5YKK
Topic: 11708 Message: 11710

Earle;

Thanks for the work in all this, now if you don't mind, could you give a "behind times on the email" OM a URL reference to where all this is located? I missed something awhile back, then got a little sicker than usual, so it would help to bring a semi-retired up to speed. I am really surprised that Steve designed his series of "pocket radios" on the same basis and parameters as the ones I learned "back in the vacuum tube era", got a lot of enjoyment out of studying the concepts of those circuits as well as some contacts I made "in the stone age".

73's, grin a lot, it helps beat the heat!

Gil WA5YKK

On 9/3/2013 5:59 PM, ab6wl wrote:
>
> Hello Everyone,
>
> Ever since I set out a year ago to learn how transceivers work by
> building a NorCal40A while reading David Rutledge's "The Electronics
> of Radio," I have preferred to build kits such as the MTR section by
> section, testing each section as I complete it before moving on to the
> next section. Starting back in June with the latest MTR, I followed
> this method of referring mainly to the schematic, and I made
> measurements and took photos of the changing printed circuit board and
> the measurements that I made. One important caveat when building a
> radio section by section is to read through the entire assembly manual
> first and note any modifications or discrepancies between the parts
> list, the assembly instructions, and the schematic in order to ensure
> proper installation of the components.
>
> I have written a description of the function of each section, and,
> after getting Steve's Ok, because I felt that it was important that he
> knew what I was doing, I have uploaded 19 pdfs to a folder labeled
> AB6WL. I have titled this series of documents "Toward Understanding
> the MTR: and other Superheterodyne Receivers and Direct Synthesis
> Transmitters." The word "Toward..." means that I do not yet understand
> everything completely, but I am working on it. Each section's
> description is numbered according to the order in which I built it, so
> that the names of the 19 files are as follows --
>
> 1_Power Supply
> 2_MCU & Display

> 3_40 MHz Reference Oscillator
> 4_Direct Digital Synthesizer
> 5_DDS Local Oscillator Lowpass Filter
> 6_20m Transmit Lowpass Filter
> 7_40m Transmit Lowpass Filter
> 8_20m & 40m Receive Bandpass Filters
> 9_Transmit Receive MUTE Switch - Part 1
> 10_Receive RF Mixer
> 11_Receiver Intermediate Frequency Crystal Filter
> 12_Product Detector and Beat Frequency Oscillator
> 13_Receiver Audio Preamplifier
> 14_Audio Amplifier & Automatic Gain Control
> 15_Transmit Receive MUTE Switch - Part 2
> 16_Audio Bandpass Filter
> 17_Transmit Drivers
> 18_Finals V+ Shaping & TR Switch - Part 3
> 19_Finals Transistors Power Amplifier
>
> My suggestion is that you print out the schematic of the MTR on pages
> 22 &b 23 of the manual so that you can refer to it while reading
> through my explanations of the different sections. You could even
> print out the schematics for any of the ATSs on this website, or of
> the Weber Tribander or PFR-3A on Doug Hendricks' website qrpkits.com
> to compare the variations in Steve's designs.
>
> Steve's MTR, with both its simplicity and its sophistication on a
> two-sided printed circuit board smaller than a credit card, presents a
> great opportunity to understand the various parts of transceivers,
> especially when it involves classic circuit designs that go back to
> the beginning of the 20th century and World War I. My hope is that
> others like myself who are limited in their understanding can benefit
> from my explanations. I have certainly benefited from trying to
> explain the MTR, especially the trigonometric relationships of mixer
> signals described in Section 12 on the Product Detector. Steve has
> answered questions for me along the way, and I would also welcome from
> the group any advice on making corrections or clarifications.
>
> 73,
>
> Earle
> AB6WL
>
>
>
>

11711. Re: Description of the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-04 02:31:35 UTC
From: ab6wl
Topic: 11708 Message: 11711

Hi Gil,

The URL for the folder is

http://groups.yahoo.com/group/AT_Sprint/files/AB6WL/

Yes, I was a little surprised to find that the inventor of the superheterodyne receiver was U.S. Army Major Edwin Armstrong in France during World War I in 1918. His is a bit of a tragic story in that he later got in a patent fight with RCA and became so despairing that he stabbed his wife, the former secretary of the president of RCA, David Sarnoff, with a fireplace poker. She left their apartment to stay with her sister, and the next day on January 31, 1954, he jumped to his death from the thirteenth floor of their apartment in New York City.

Nevertheless, his superheterodyne receiver is considered one of the most important inventions in electronic history. Starting in Section 12 and the RF Mixer, I discuss the superheterodyne nature of the MTR's receiver.

73,

Earle
AB6WL

--- In AT_Sprint@yahoogroups.com, Gil WA5YKK <WA5YKK@...> wrote:
>
> Earle;
>
> Thanks for the work in all this, now if you don't mind, could you give
> a "behind times on the email" OM a URL reference to where all this is
> located? I missed something awhile back, then got a little sicker than
> usual, so it would help to bring a semi-retired up to speed. I am really
> surprised that Steve designed his series of "pocket radios" on the same
> basis and parameters as the ones I learned "back in the vacuum tube
> era", got a lot of enjoyment out of studying the concepts of those
> circuits as well as some contacts I made "in the stone age".
>
> 73's, grin a lot, it helps beat the heat!
>
> Gil WA5YKK
>

11712. Re: [AT_Sprint] Re: Description of the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-04 02:58:34 UTC
From: Gil WA5YKK
Topic: 11708 Message: 11712

Earle;

Thanks for the URL, and the historical fill-in. I read a slightly different version, in which another old "electrical experimenter" had been credited with "inventing the superhet", so Armstrong took him to court on a patent infringement. He won the initial case, then the lawyers appealed, and "due to a mistake in legal lingo", he lost, got busted down hard and big time, all his work and fortune was gone. The only note on that news was that he did himself in, no facts of what he did. That's one of the biggest problems with any popular public item, getting a patent is H***, then keeping the buzzards and vultures off your back requires some legal eagles, but those who know what they're doing will continue on. Can't be a mental case, got to have steel in your blood, and plenty of ammo ready.
I knew what the post-Korean War circuits looked like, was given some gear by friends of the family, then "rust bugs, dying tubes, and vultures" descended on me, until I just bought a Knight Kit receiver, enjoyed it for what I could get out of it. After my Air Force days, I got Novice back, then General Class, and had one devil's time trying to keep a rig on the air, antennas up, my Dad "hated radio, it didn't look like a fish", then three hucksters, not in a row, managed to "relieve me of donated gear" - went to Dallas with it, sold it for big bucks. Undaunted, I got $$ together, bought one rice burner after another, kept up all that I could do - and learned that "the ripoff guys" had their own woes, heart attacks, bad health, you name it! I presently have Icom and Kachina rigs, one ATS that Dale built for me.... yet as I had remarked, I've never seen the schematic of it.
Elecraft has a fine rig, "updated when needed", yet their approach to getting a signal on the air makes one incredibly dizzy with "What is THIS mess?", and it's hard study again. Glad I learned digital in the Air Force.

73's, look for ya on HF one day, when I have dragons slain here.

Gil WA5YKK

On 9/3/2013 9:31 PM, ab6wl wrote:
>
> Hi Gil,
>
> The URL for the folder is
>
> http://groups.yahoo.com/group/AT_Sprint/files/AB6WL/
>
> Yes, I was a little surprised to find that the inventor of the
> superheterodyne receiver was U.S. Army Major Edwin Armstrong in France

> during World War I in 1918. His is a bit of a tragic story in that he
> later got in a patent fight with RCA and became so despairing that he
> stabbed his wife, the former secretary of the president of RCA, David
> Sarnoff, with a fireplace poker. She left their apartment to stay with
> her sister, and the next day on January 31, 1954, he jumped to his
> death from the thirteenth floor of their apartment in New York City.
>
> Nevertheless, his superheterodyne receiver is considered one of the
> most important inventions in electronic history. Starting in Section
> 12 and the RF Mixer, I discuss the superheterodyne nature of the MTR's
> receiver.
>
> 73,
>
> Earle
> AB6WL
>

11713. MTR RIT w/strait key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-04 06:26:58 UTC
From: <WilliamClay.Heilman@...>
Topic: 11713 Message: 11713

I am sorry if this as been addressed but I am having trouble searching the new site.

I found out tonight RIT does not work with a strait key. I also found out if I press the RIT button, the MTR transmits qgyt without spaces. This is kind of frustrating.

11714. Re: [AT_Sprint] MTR on 9V battery?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-08-25 00:42:22 UTC
From: Peter Martin
Topic: 11626 Message: 11714

I use a 3S 1000mAh lipo for both my MTR and ATS4.
http://www.hobbyking.co.uk/hobbyking/store/uh_viewitem.asp?idproduct=6470
I could get away with half that capacity as even on an all day, 3 summit trip, with 150+ QSOs there's masses of capacity left even when I stop the charge at 12v.
The 1000mA however gives me lots in reserve and weighs in at >100gms.
For the $5 investment they're worth their weight in gold!

And in action here
http://g4isj.blogspot.co.uk/2013/06/sota-fan-nedd-gwsw-007.html
and
http://g4isj.blogspot.co.uk/2013/04/new-mtr-field-trials.html

Pete
G4ISJ

11715. RE: Description of the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-04 12:32:02 UTC
From: <andrewcross_za@...>
Topic: 11708 Message: 11715

Thanks Earle that looks like a terrific effort and one I am sure many including myself can enjoy!

All the best
Andrew VK2ONZ

--- In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

Hello Everyone,

Ever since I set out a year ago to learn how transceivers work by building a NorCal40A while reading David Rutledge's "The Electronics of Radio," I have preferred to build kits such as the MTR section by section, testing each section as I complete it before moving on to the next section. Starting back in June with the latest MTR, I followed this method of referring mainly to the schematic, and I made measurements and took photos of the changing printed circuit board and the measurements that I made. One important caveat when building a radio section by section is to read through the entire assembly manual first and note any modifications or discrepancies between the parts list, the assembly instructions, and the schematic in order to ensure proper installation of the components.

I have written a description of the function of each section, and, after getting Steve's Ok, because I felt that it was important that he knew what I was doing, I have uploaded 19 pdfs to a folder labeled AB6WL. I have titled this series of documents "Toward Understanding the MTR: and other Superheterodyne Receivers and Direct Synthesis Transmitters." The word "Toward..." means that I do not yet understand everything completely, but I am working on it. Each section's description is numbered according to the order in which I built it, so that the names of the 19 files are as follows --

1_Power Supply
2_MCU & Display
3_40 MHz Reference Oscillator
4_Direct Digital Synthesizer
5_DDS Local Oscillator Lowpass Filter
6_20m Transmit Lowpass Filter
7_40m Transmit Lowpass Filter
8_20m & 40m Receive Bandpass Filters
9_Transmit Receive MUTE Switch - Part 1
10_Receive RF Mixer
11_Receiver Intermediate Frequency Crystal Filter
12_Product Detector and Beat Frequency Oscillator
13_Receiver Audio Preamplifier
14_Audio Amplifier & Automatic Gain Control
15_Transmit Receive MUTE Switch - Part 2
16_Audio Bandpass Filter
17_Transmit Drivers
18_Finals V+ Shaping & TR Switch - Part 3

19_Finals Transistors Power Amplifier

My suggestion is that you print out the schematic of the MTR on pages 22 &b 23 of the manual so that you can refer to it while reading through my explanations of the different sections. You could even print out the schematics for any of the ATSs on this website, or of the Weber Tribander or PFR-3A on Doug Hendricks' website qrpkits.com to compare the variations in Steve's designs.

Steve's MTR, with both its simplicity and its sophistication on a two-sided printed circuit board smaller than a credit card, presents a great opportunity to understand the various parts of transceivers, especially when it involves classic circuit designs that go back to the beginning of the 20th century and World War I. My hope is that others like myself who are limited in their understanding can benefit from my explanations. I have certainly benefited from trying to explain the MTR, especially the trigonometric relationships of mixer signals described in Section 12 on the Product Detector. Steve has answered questions for me along the way, and I would also welcome from the group any advice on making corrections or clarifications.

73,

Earle
AB6WL

11716. Re: Description of the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-04 13:39:36 UTC
From: alphaindia4oscartango@yahoo.com
Topic: 11708 Message: 11716
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

11717. Re: [AT_Sprint] MTR RIT w/strait key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-04 19:11:57 UTC
From: Steven Weber
Topic: 11713 Message: 11717

I found out tonight RIT does not work with a strait key. I also found out if I press the RIT button, the MTR transmits qgyt without spaces. This is kind of frustrating.

I don't know what happend to cause that - mine works as it should. And it does not do this if in normal paddle mode?

Steve KD1JV

11718. RE: [AT_Sprint] MTR RIT w/strait key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-04 19:51:25 UTC
From: Heilman, William Clay
Topic: 11713 Message: 11718

RIT works fine in paddle mode.

Off topic, but would like to know if there is a way to clear the message memory so I don’t accidently send out a message?

73 -de ke7ngo Clayton
WX MAA8108
NAQCC 5902
+1 (602) 300-3068

Compone Accomoda Supera
"It's only a mistake if you don't learn from it."

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Wednesday, September 04, 2013 12:12
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MTR RIT w/strait key

□
I found out tonight RIT does not work with a strait key. I also found out if I press the RIT button, the MTR transmits qgyt without spaces. This is kind of frustrating.

I don't know what happend to cause that - mine works as it should. And it does not do this if in normal paddle mode?

Steve KD1JV

11719. Re: [AT_Sprint] MTR RIT w/strait key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-05 05:05:08 UTC
From: Steven Weber
Topic: 11713 Message: 11719

I don't understand how that can be. In any event, enter the memory mode and do a store before you enter any characters and it will store an end of message character as the first item, effectively clearing it.
Steve
RIT works fine in paddle mode.

Off topic, but would like to know if there is a way to clear the message memory so I don’t accidently send out a message?

11720. Re: [AT_Sprint] MTR RIT w/strait key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-05 05:39:17 UTC
From: Heilman, William Clay
Topic: 11713 Message: 11720

By chance second flash for the first run? I sent the chip to you for flashing. None of the original issues are experienced.

Clayton Heilman

The world is run by those who show up.

On Sep 4, 2013, at 22:06, "Steven Weber" <steve.kd1jv@gmail.com<mailto:steve.kd1jv@gmail.com>> wrote:

□

I don't understand how that can be. In any event, enter the memory mode and do a store before you enter any characters and it will store an end of message character as the first item, effectively clearing it.
Steve
RIT works fine in paddle mode.

Off topic, but would like to know if there is a way to clear the message memory so I don’t accidently send out a message?

11721. MTR: blowing up my finals

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-05 14:59:26 UTC
From: <dancbirnbaum@...>
Topic: 11721 Message: 11721

I recently built the MTR version 1, and out of the case it seemed to be working fine. I was getting about 2 watts out with a 9 volt battery. I installed it in one of MTR cases that were recently sold here and the transmitter was dead but everything else seemed to work. Replaced the 3 BS 170s and it seemed to be working great out of the case. Put it back together and then nothing. Its not completely clear in the manual where the ground wire from the antenna lug is supposed to go but I connected to the rectangular pad near the antenna wire . I have been testing it into a dummy load and measured 50 ohms at the antenna jack the last time I tried it.

Any suggestions would be appreciated before I go through the painful process of taking it all apart and replacing the finals again.

Thanks!

Dan
AD6JY

11722. ATS3B - number 2 at power UP !

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-05 16:46:44 UTC
From: <boutheon.pierre@...>
Topic: 11722 Message: 11722

hello gang,
i repared my ats3B and why the number 2 is hearing at power up ?
tks
F5GSK - Pierre -

11723. Re: ATS3B - number 2 at power UP !

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-06 00:14:59 UTC
From: n1rx
Topic: 11722 Message: 11723

This means the rig believes it is on 20M. This is based upon a resistive voltage divider on the band module, read on power-up. Do you have the 20M module attached? Have you tried plugging in other band modules to see how the rig behaves on power up?
Bruce
N1RX

11724. RE: [AT_Sprint] ATS3B - number 2 at power UP !

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-06 02:38:44 UTC
From: Dale Putnam
Topic: 11722 Message: 11724

Hi Pierre, The "2" that you hear on power up is the announcement of the band that is in it.In this case the 20m filter is in place. You will enjoy this little radio.. it is a winner!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: boutheon.pierre@neuf.fr
Date: Thu, 5 Sep 2013 09:46:44 -0700
Subject: [AT_Sprint] ATS3B - number 2 at power UP !

hello gang,
i repared my ats3B and why the number 2 is hearing at power up ?
tks
F5GSK - Pierre -

11725. ATS3B doesn't recognise ma external straight key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-06 10:15:54 UTC
From: <boutheon.pierre@...>
Topic: 11725 Message: 11725

hi,
my ATS3B V2 doesn't recognize my external straight key automatically , is it necessary to proceed to a reset of the mpu ? and how ?
thanks
Pierre - F5GSK -

11726. RE: [AT_Sprint] ATS3B doesn't recognise ma external straight key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-06 14:29:34 UTC
From: Dale Putnam
Topic: 11725 Message: 11726

Hi Pierre, It should recognize your straight key, if you are using a mono plug, have it plugged in before pwr up. It will notsee the straight key if you power up with a paddle or nothing plugged in then plug in the straight key. Ok?

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: boutheon.pierre@...
Date: Fri, 6 Sep 2013 03:15:54 -0700
Subject: [AT_Sprint] ATS3B doesn't recognise ma external straight key

hi,
my ATS3B V2 doesn't recognize my external straight key automatically , is it necessary to proceed to a reset of the mpu ? and how ?
thanks
Pierre - F5GSK -

11727. RE: ATS3B doesn't recognise ma external straight key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-06 16:04:32 UTC
From: <boutheon.pierre@...>
Topic: 11725 Message: 11727

hi,
when i doing your method an E is displaying and the key is dead.... i don't understand why

--- In at_sprint@yahoogroups.com, <daleputnam@...> wrote:

Hi Pierre,
It should recognize your straight key, if you are using a mono plug, have it plugged in before pwr up. It will not
see the straight key if you power up with a paddle or nothing plugged in then plug in the straight key.
Ok?

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: boutheon.pierre@...
Date: Fri, 6 Sep 2013 03:15:54 -0700
Subject: [AT_Sprint] ATS3B doesn't recognise ma external straight key

hi,
my ATS3B V2 doesn't recognize my external straight key automatically , is it necessary to proceed to a reset of the mpu ? and how ?
thanks
Pierre - F5GSK -

11728. RE: [AT_Sprint] RE: ATS3B doesn't recognise ma external straight key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-06 16:52:05 UTC
From: Dale Putnam
Topic: 11725 Message: 11728

The "E" is telling you that there is an over current condition that needs to be addressed.If the paddle is plugged in then the power is turned on.. but with both paddles closed, for the moment that power is applied, then the paddle and radio should then act as a straight key has been plugged in, then without shutting off the power, unplug the paddles and plug in the straight key, the radio knows nodifferent, and will respond correctly with the straight key, unless there is an issue with the straight key, plug or cable.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: boutheon.pierre@...
Date: Fri, 6 Sep 2013 09:04:32 -0700
Subject: [AT_Sprint] RE: ATS3B doesn't recognise ma external straight key

hi,
when i doing your method an E is displaying and the key is dead.... i don't understand why

--- In at_sprint@yahoogroups.com, <daleputnam@...> wrote:

Hi Pierre, It should recognize your straight key, if you are using a mono plug, have it plugged in before pwr up. It will notsee the straight key if you power up with a paddle or nothing plugged in then plug in the straight key. Ok?

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: boutheon.pierre@...
Date: Fri, 6 Sep 2013 03:15:54 -0700
Subject: [AT_Sprint] ATS3B doesn't recognise ma external straight key

hi,
my ATS3B V2 doesn't recognize my external straight key automatically , is it necessary to proceed to a reset of the mpu ? and how ?
thanks
Pierre - F5GSK -

11729. RE: [AT_Sprint] MTR RIT w/strait key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-06 17:40:04 UTC
From: Heilman, William Clay
Topic: 11713 Message: 11729

Does anyone have a recommended starting point for debugging this issue? I am not so worried about RIT not working in strait key mode but am concerned about transmitting the “QGYT” by pressing the RIT button.

73 -de ke7ngo Clayton
WX MAA8108
NAQCC 5902
+1 (602) 300-3068

Compone Accomoda Supera
"It's only a mistake if you don't learn from it."

From: Heilman, William Clay
Sent: Wednesday, September 04, 2013 22:39
To: <AT_Sprint@yahoogroups.com>
Subject: Re: [AT_Sprint] MTR RIT w/strait key

By chance second flash for the first run? I sent the chip to you for flashing. None of the original issues are experienced.

Clayton Heilman

The world is run by those who show up.

On Sep 4, 2013, at 22:06, "Steven Weber"
<steve.kd1jv@gmail.com<mailto:steve.kd1jv@gmail.com>> wrote:

□
I don't understand how that can be. In any event, enter the memory mode and do a store before you enter any characters and it will store an end of message character as the first item, effectively clearing it.
Steve
RIT works fine in paddle mode.

Off topic, but would like to know if there is a way to clear the message memory so I don’t accidently send out a message?

11730. Re: [AT_Sprint] MTR RIT w/strait key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-07 00:49:50 UTC
From: Steven Weber
Topic: 11713 Message: 11730

I'm afraid your going to have to send it to me for reflashing. The firmware must have some how gotten corrupted as I can not duplicate the problem here.

Steve KD1JV

Does anyone have a recommended starting point for debugging this issue? I am not so worried about RIT not working in strait key mode but am concerned about transmitting the “QGYT” by pressing the RIT button.

11731. Re: [AT_Sprint] RE: ATS3B doesn't recognise ma external straight key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-07 18:04:11 UTC
From: Steven Weber
Topic: 11725 Message: 11731

when i doing your method an E is displaying and the key is dead.... i don't understand why

You must plug in the straight key with power OFF, then turn it ON.

If the "E" comes on, you have an over current condition which must be fixed before the rig will work. That could be because you have damaged the PA mosfets or have some other problem.

Steve KD1JV

--- In at_sprint@yahoogroups.com, <daleputnam@...> wrote:

Hi Pierre,
It should recognize your straight key, if you are using a mono plug, have it plugged in before pwr up. It will not
see the straight key if you power up with a paddle or nothing plugged in then plug in the straight key.
Ok?

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: boutheon.pierre@...
Date: Fri, 6 Sep 2013 03:15:54 -0700
Subject: [AT_Sprint] ATS3B doesn't recognise ma external straight key

hi,
my ATS3B V2 doesn't recognize my external straight key automatically , is it necessary to proceed to a reset of the mpu ? and how ?
thanks
Pierre - F5GSK -

11732. Re: [AT_Sprint] RE: ATS3B doesn't recognise ma external straight key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-07 19:15:37 UTC
From: boutheon.pierre
Topic: 11725 Message: 11732

On Sat, 7 Sep 2013 14:04:11 -0400
hi steve,
tks steve i see that
F5GSK - Pierre -
Steven Weber <steve.kd1jv@...> wrote:

> when i doing your method an E is displaying and the key is dead.... i don't understand why
>
> You must plug in the straight key with power OFF, then turn it ON.
>
> If the "E" comes on, you have an over current condition which must be fixed before the rig will work. That could be because you have damaged the PA mosfets or have some other problem.
>
> Steve KD1JV
>
>
>
> --- In at_sprint@yahoogroups.com, <daleputnam@...> wrote:
>
>
> Hi Pierre,
> It should recognize your straight key, if you are using a mono plug, have it plugged in before pwr up. It will not
> see the straight key if you power up with a paddle or nothing plugged in then plug in the straight key.
> Ok?
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
>
>
> ---
> To: AT_Sprint@yahoogroups.com
> From: boutheon.pierre@...
> Date: Fri, 6 Sep 2013 03:15:54 -0700
> Subject: [AT_Sprint] ATS3B doesn't recognise ma external straight key
>

>
> hi,
> my ATS3B V2 doesn't recognize my external straight key automatically , is it necessary to proceed to a reset of the mpu ? and how ?
> thanks
> Pierre - F5GSK -
>
>
>
>
>
>

--
boutheon.pierre <boutheon.pierre@...>

11733. MTR 2 Kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-07 16:08:39 UTC
From: <45leopard@...>
Topic: 11733 Message: 11733

I am an avid builder but new to this site and QRP. Where can I find and purchase an MTR 20/40 kit? I have found a manual, but without accurate board dimensions.

11734. Re: [AT_Sprint] MTR 2 Kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-08 01:06:36 UTC
From: Lee Hiers
Topic: 11733 Message: 11734

The MTR is currently only available on the "used" market - although you may be able to find an unbuilt kit if you're lucky. If you want to get a kit when Steve, KD1JV offers them, your best bet is to watch here in this group and be ready to buy when Steve announces availability....they usually sell out in a day or two.

GL & 73 de Lee, AA4GA
On Sep 7, 2013 6:16 PM, <45leopard@...> wrote:

> **
>
>
> I am an avid builder but new to this site and QRP. Where can I find and
> purchase an MTR 20/40 kit? I have found a manual, but without accurate
> board dimensions.
>
>

11735. scrolling frequency on the single digit display on idle

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-08 08:31:07 UTC
From: <bubnikv@...>
Topic: 11735 Message: 11735

Hi gang,

After years, I finally found time to implement a neat feature I planned for a long time ago. Once the tuning stops, the frequency is scrolled on the single digit display automatically. The scrolling resumes after 5 seconds since the end of the previous scroll. The scrolling is processed in an idle loop, it does not interfere with reception and may be interrupted at any time by any action. If the frequency is below 100kHz, hundreds of kHz are not displayed.

See the demo on YouTube.
http://www.youtube.com/watch?v=lwg7_PbMSBc

I hope it may be an inspiration for Steve to implement into the MTR. The implementation utilizes the watchdog timer, for which we did not have any use until now. In addition, I am using the same timer to implement automatic power off, another feature I planned to implement some 4-5 years ago. The source code will be published soon.

73, Vojtech OK1IAK

11736. Re: scrolling frequency on the single digit display on idle

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-08 15:35:44 UTC
From: jer terez
Topic: 11735 Message: 11736

http://www.youtube. com/watch? v=lwg7_PbMSBc

take out the space before com and the space before v and the link will work

jt aa1of

11737. RE: [AT_Sprint] MTR RIT w/strait key

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-08 20:29:08 UTC
From: Heilman, William Clay
Topic: 11713 Message: 11737

Scotty, WA2DFI, is out here and still needs to flash his rig. He has TI programing hard ware we can use. So we will give this a try at an Explorer Post meeting so the youth can learn about flashing chips this way. I want to make sure the current code is up on the group site so we don’t go in circles before we complete the task.

73 -de ke7ngo Clayton
WX MAA8108
NAQCC 5902
+1 (602) 300-3068

Compone Accomoda Supera
"It's only a mistake if you don't learn from it."

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Friday, September 06, 2013 17:50
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MTR RIT w/strait key

☐
I'm afraid your going to have to send it to me for reflashing. The firmware must have some how gotten corrupted as I can not duplicate the problem here.
Steve KD1JV
Does anyone have a recommended starting point for debugging this issue? I am not so worried about RIT not working in strait key mode but am concerned about transmitting the “QGYT” by pressing the RIT button.

11738. Low Voltage on MPS430

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-09 03:56:57 UTC
From: <michmasher@...>
Topic: 11738 Message: 11738

Hi,

I'm looking for some suggestions as I troubleshoot my MTR2.

Measuring 0.5V on pin 5 and 0V on pin 6. Doesnt' matter whether the crystal is in or out of the circuit.

Also measuring about 0.1V on the pin 10 (dot). Wondering if this is off, because the clock is not operational.

Other voltages around the MCU seem as posted in Steve's manual.

This part of the circuit was initially working. After moving the QTH, I had this problem when I powered it up.

What is this telling me?

Kind Regards,

Robert, NQ0T

11739. MTR unbuilt kit for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-10 20:35:47 UTC
From: Remigiusz Olejnik
Topic: 11739 Message: 11739

Hello,

a MTR unbuilt kit with a case - just for sale:
http://www.ebay.com/itm/321205430904
it comes from a second batch, its S/N is 255.

73 de Remi SQ1LZT

11740. MTR unbuilt kit for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-10 18:58:59 UTC
From: <sq1lzt@...>
Topic: 11739 Message: 11740

Hello,

a second batch MTR kit S/N 255 - unbuilt, with a case - just waiting for a new owner:
http://www.ebay.com/itm/321205430904

73 de Remi SQ1LZT

11741. New Member Introduction - KK4TPO

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-13 01:16:17 UTC
From: xpaw01
Topic: 11741 Message: 11741

Hello,

I'm new to the group and a new ham. I had no idea that amateur radio encompassed so many things. Being a scoutmaster of a local boy scout troop I am naturally drawn to QRP while camping. I came across this article http://threehundredzeroes.com/Trail-Stories-Ham-AT-Journeys-May-June09.pdf by K1YPP and that really peaked my interest. Ultimately, I found this group.

How do I get started and access to a kit? Any direction is appreciated!

73 & YIS,

Paul
KK4TPO

11742. Crazy Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-13 13:09:33 UTC
From: <reesemn@...>
Topic: 11742 Message: 11742

So, I'm new to the group and patiently waiting for new MTR kiss to become available. In the meantime, I had this idea to encase the radio in resin similar to this:
http://instructables.com/id/LED-Resin-Cubes

My main question is, would there be heat issues? Does the MTR generate much heat that it needs to dissipate? Obviously, I'd have to figure out keeping access to ports, etc, but does anyone foresee any other issues?

Thanks,
Micah (KC3AOL...soon to be either N4CA or K3WLZ)

11743. Re: [AT_Sprint] New Member Introduction - KK4TPO

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-13 14:38:41 UTC
From: wmorrill@...
Topic: 11741 Message: 11743

Hendricks sells many radio kits. Do a search and you will find his site.

> Hello,
>
> I'm new to the group and a new ham. I had no idea that amateur radio
> encompassed so many things. Being a scoutmaster of a local boy scout troop
> I am naturally drawn to QRP while camping. I came across this article
> http://threehundredzeroes.com/Trail-Stories-Ham-AT-Journeys-May-June09.pdf
> by K1YPP and that really peaked my interest. Ultimately, I found this
> group.
>
> How do I get started and access to a kit? Any direction is appreciated!
>
> 73 & YIS,
>
> Paul
> KK4TPO
>
>

11744. RE: [AT_Sprint] Crazy Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-13 15:00:39 UTC
From: William Schmidt
Topic: 11742 Message: 11744

Micah,

I think it is a bad idea. You have no way to remove the heat generated in the finals. And if they burn out you can not replace them. You also have the problem of not impeding the moving parts like the switches and plugs. If a small amount of resin prevents their action then you have just ruined the entire project.
Steve's ATS's and MTR's have shown themselves to be rugged enough for backpacking without being encapsulated. If you need waterproofing then consider placing it in a plastic baggy.

Bill WV1N

To: AT_Sprint@yahoogroups.com
From: reesemn@...
Date: Fri, 13 Sep 2013 06:09:33 -0700
Subject: [AT_Sprint] Crazy Idea

So, I'm new to the group and patiently waiting for new MTR kiss to become available. In the meantime, I had this idea to encase the radio in resin similar to this:

http://instructables.com/id/LED-Resin-Cubes

My main question is, would there be heat issues? Does the MTR generate much heat that it needs to dissipate? Obviously, I'd have to figure out keeping access to ports, etc, but does anyone foresee any other issues?
Thanks,Micah (KC3AOL...soon to be either N4CA or K3WLZ)

11745. RE: ATS3B - number 2 at power UP !

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-13 17:56:09 UTC
From: <jgaffke@...>
Topic: 11722 Message: 11745

Pierre wrote: i repared my ats3B and why the number 2 is hearing at power up ?

I don't understand.
Did you succeed in repairing your ATS3B?
Do you still have a problem?
What band module do you have installed when you power it up and hear the number 2?
It is normal to hear a "2" at power up if the 20 meter band module is installed.

Jerry, KE7ER

--- In at_sprint@yahoogroups.com, <daleputnam@...> wrote:

Hi Pierre,
The "2" that you hear on power up is the announcement of the band that is in it.
In this case the 20m filter is in place.
You will enjoy this little radio.. it is a winner!

Have a great day,

--... ...-- Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: boutheon.pierre@...
Date: Thu, 5 Sep 2013 09:46:44 -0700
Subject: [AT_Sprint] ATS3B - number 2 at power UP !

hello gang,
i repared my ats3B and why the number 2 is hearing at power up ?
tks
F5GSK - Pierre -

11746. RE: [AT_Sprint] RE: ATS3B - number 2 at power UP !

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-13 18:04:51 UTC
From: Dale Putnam
Topic: 11722 Message: 11746

Hi Pierre, The "2" that you hear on power up is the announcement of the band that is in it.In this case the 20m filter is in place. You will enjoy this little radio.. it is a winner!
Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: jgaffke@...
Date: Fri, 13 Sep 2013 10:56:09 -0700
Subject: [AT_Sprint] RE: ATS3B - number 2 at power UP !

Pierre wrote: i repared my ats3B and why the number 2 is hearing at power up ?

I don't understand.Did you succeed in repairing your ATS3B?Do you still have a problem?What band module do you have installed when you power it up and hear the number 2?It is normal to hear a "2" at power up if the 20 meter band module is installed.
Jerry, KE7ER

--- In at_sprint@yahoogroups.com, <daleputnam@...> wrote:

Hi Pierre, The "2" that you hear on power up is the announcement of the band that is in it.In this case the 20m filter is in place. You will enjoy this little radio.. it is a winner!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: boutheon.pierre@...
Date: Thu, 5 Sep 2013 09:46:44 -0700
Subject: [AT_Sprint] ATS3B - number 2 at power UP !

hello gang,
i repared my ats3B and why the number 2 is hearing at power up ?
tks
F5GSK - Pierre -

11747. RE: [AT_Sprint] New Member Introduction - KK4TPO

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-14 01:37:04 UTC
From: Dale Putnam
Topic: 11741 Message: 11747

Hi Paul, Welcome, and it is very good to see you join, with the Scouts right behind. Hendricks QRPkits has a very cool regen rx kit... called the Scout.. that would be great for the boys to start with. and it works well too. He also had kits like the cw only Tribander that is a super kit 3 band, and good specs too.A well rounded website can be seen at qrpkits.com

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: xpaw01@...
Date: Fri, 13 Sep 2013 01:16:17 +0000
Subject: [AT_Sprint] New Member Introduction - KK4TPO

Hello,

I'm new to the group and a new ham. I had no idea that amateur radio encompassed so many things. Being a scoutmaster of a local boy scout troop I am naturally drawn to QRP while camping. I came across this article http://threehundredzeroes.com/Trail-Stories-Ham-AT-Journeys-May-June09.pdf by K1YPP and that really peaked my interest. Ultimately, I found this group.

How do I get started and access to a kit? Any direction is appreciated!

73 & YIS,

Paul

KK4TPO

11748. NAQCC Sprint Wednesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-14 15:20:31 UTC
From: NAQCC
Topic: 2848 Message: 11748

NAQCC Sprint Wednesday night!

Our September sprint is this coming Wednesday evening local time (September 18, EDT - 8:30-10:30PM, CDT - 7:30-9:30PM, MDT - 6:30-8:30PM, PDT - 5:30-7:30PM), which translates as Thursday September 19, 0030Z to 0230Z in all cases.

I will refer you to the proper URL:

http://naqcc.info/sprint201309.html

There you will find all the details as to time, frequencies and other important information.

Certificates: SWA (simple wire antennas) certificates by call area, VE and DX for 1st, 2nd and 3rd place finishers (New!). A Certificate for top score in the GAIN antenna category.

Prizes: Too many to list!! - check out the prize page on our website.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you've been hesitant to join in our sprints because you hear other sprints running at breakneck speeds, have no fear. Our sprints are geared to the newcomer to CW and/or contesting. Virtually everyone including the many veteran contesters who regularly enter our sprints will slow down to YOUR speed to help you make your contacts.

If you are not already a member of NAQCC... membership is FREE! Now is your chance to join the largest QRP CW Club in the world!! We currently have 6870+ members in: All 50 States - 9 VE Provinces - 94 Countries. Sign up on the NAQCC website today (http://naqcc.info/) and receive a handsome certificate, with your membership number on it, which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

11749. MTR NR. 239 Come to Life!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-14 17:14:32 UTC
From: Lee Hiers
Topic: 11749 Message: 11749

I finally got some time to work on completing my MTR this week, and Thursday evening, I had all the parts in and the jacks wired up ready for testing. Going through Steve's check list, I did find a bad solder joint, which was quickly repaired. Otherwise, everything checked out just fine.

On to the TX smoke test...I was only getting around 750 mW out of a 9 volt battery on 40m and just under a watt on 20m. Playing with the toroids didn't do much. I figured I'd sleep on it, as it was getting late. I decided to just listen for a bit before turning in, so I hooked up my antenna, and the little rig's RX was as dead as a hammer. Dang.

I studied the schematics a good bit last night - with the confusion that seems to exist around the BPF components, I feared I'd gotten my BND-A and -B band-1 and -2 mixed up and had some kind of problem there, but finally convinced myself that that was OK. Since the odds are pretty good that a problem is due to bad soldering, I figured I'd go over all my joints - again. Late again, I figured I'd work on it over the weekend.

The second Saturday morning of each month is when the NoGAQRP group meets and I was hoping to take the MTR in for show and tell, but it wasn't to be. When I got up this morning I wasn't really in the mood to drive the 65 miles or so into Atlanta, so I got out the magnifying glass and DMM and went hunting. I quickly found a joint on one of the 612s that looked a little iffy and re-heated it...but in the schematic, that pin wasn't connected to anything, so I kept looking.

After just a few more minutes I found another iffy looking joint on one of the inductors in the LO filter. After reheating that joint and looking at the schematic, I reasoned that could be the culprit, so I hooked the rig back up to the antenna on 40m and instantly started hearing signals...the first one heard was a ZL2! Alrighty!

Swapped the dummy load back in for the antenna and started tweaking the toroids again. Now getting 5-ish watts or better for both 20 and 40 with about an 11.5 volt battery. Hook up the antenna again and start tuning 20 meters - again, I'm hearing a lot of DX, mostly UK stations in the FOC QSO party, so it's time to box 'er up!

After fitting the board in the (really nice) enclosure, I get back on 20m and make a quick QSO with K9UIY in the QSO party just to prove the rig does work and spend the rest of the morning just listening around.

Yahoo!

I still think the band switching arrangement if a little funkier than I'd like, but with only two bands to choose from, it's not bad at all. And the case is just super. This rig just feels so much more substantial than the ATS-3b and its Altoids tin...and even with the funky bandswitching, it's a lot better than switching filters in and out like on the '3b.

And don't get me wrong, I think both rigs are great! And each has its own purpose. The ATS-3b will be used almost exclusively in Spartan Sprints because it's so much lighter than the MTR. And the MTR will most likely become my main SOTA rig over the KX-3. Yes, the KX-3 is a much better radio, but the MTR is roughly 1/8 the size and weight!

I'm definitely looking forward to my next SOTA trip!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

11750. Interference on 20M MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-14 23:38:35 UTC
From: Barry N1EU
Topic: 11750 Message: 11750

My MTR was finished a few weeks ago and I've used it on 4 previous SOTA outings with good results. However, while doing an activation this morning on 20M, I was experiencing strong interference/hash up and down the band at 1400Z. I was in a very rf quiet location on a mountain summit in the Adirondacks. The band was nice and quiet and suddenly the hash started (perhaps synchronous with clock turning to 1400Z). My antenna was a resonant EFHW about 30ft above the summit with clear shot/dropoff in all directions. Could that have been some kind of image/IMD/bleed-through from strong European SWBC? Anybody else ever experience this or have an educated guess?

Tnx/72, Barry N1EU

11751. Re: [AT_Sprint] Interference on 20M MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 00:35:08 UTC
From: Colin Evans
Topic: 11750 Message: 11751

Barry,

Sometimes I find that my mobile phone produces a whole lot of noise in my MTR, especially when looking at SOTAwatch!

Could your phone be causing the problem? I struggle with this with a lot of my radios.

73,
Colin
M1BUU
On Sep 15, 2013 12:38 AM, "Barry N1EU" <n1eu.barry@...> wrote:

> **
>
>
> My MTR was finished a few weeks ago and I've used it on 4 previous SOTA
> outings with good results. However, while doing an activation this morning
> on 20M, I was experiencing strong interference/hash up and down the band at
> 1400Z. I was in a very rf quiet location on a mountain summit in the
> Adirondacks. The band was nice and quiet and suddenly the hash started
> (perhaps synchronous with clock turning to 1400Z). My antenna was a
> resonant EFHW about 30ft above the summit with clear shot/dropoff in all
> directions. Could that have been some kind of image/IMD/bleed-through from
> strong European SWBC? Anybody else ever experience this or have an
> educated guess?
>
> Tnx/72, Barry N1EU
>
>

11752. Re: [AT_Sprint] Crazy Idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 04:00:51 UTC
From: Lee Hiers
Topic: 11742 Message: 11752

Kinda cool looking I guess, but how are you going to repair the rig if
something goes bad?

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

On Fri, Sep 13, 2013 at 9:09 AM, <reesemn@...> wrote:

My main question is, would there be heat issues? Does the MTR generate much
> heat that it needs to dissipate? Obviously, I'd have to figure out keeping
> access to ports, etc, but does anyone foresee any other issues?
>

11753. Readout parts arrived...!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 06:55:27 UTC
From: Gil WA5YKK
Topic: 11741 Message: 11753

Dale;

Forgot to tell ya, been busy with "preps for going to the ranch", now waiting for the hurricane to go into Mexico and then the stream flooding to get over with.

I got the package from China, having both the adapter and the number readout for frequency, to be put on the MTR rig - or at least, I think that it's the right rig. I had to find my package again of the MTR, in fact have found several of the ATS series rigs, in need of "the patience of a saint" to put them together.

When I have my ducks in a row, and am not fretting the aftermath of a hurricane, very distant from me now, I'll start getting everything together for a big box to put them in, and wait to find out if you think I got everything together. Such a bizarre series of events, can't keep my mind on any given thing, too many things to do, I take pills by the score to keep on going with, get many things in order, then little stinky things come up that take time to do, but must be done.
I got a 100' spool of RG-8U coax, intending to make baluns of much of it, 1' "connecting isolation line, 5 turns of 6" in diameter coil, and a "feedline" of a foot... so I can put my 2 meter "J poles" up, test them out, send the whole tower and antenna up, secure the little tower properly.
Once upon a time, when I was more youthful, I could zip right up a ladder, do all kinds of roof work to make the cabin secure with tie-offs, then put the stainless steel "rope" on the antenna, tie it all off properly, and enjoy contacts on nearly anything.
These days, I'm lucky to "get into the shop without nearly falling on a pile of my junk, injuring myself". My pile of items for the ranch is getting larger, so that trip will be a super load, probably will need help in getting it unloaded, so I'll call on my "help" to get the mess out of the trailer and out of the van!

"Pray for Mexico to get the hurricane", I don't need that aggravation right now, the one road portion that I have to travel on will be underwater with some storm surge, thus I hope it's clear by the time I get there - otherwise, it's many miles to go around that one winding stretch!

73's, look for the ATS and MTR packages soon, I have yet to send Steve any money, he hasn't called for any yet.... or did I send it, and forgot?

Gil WA5YKK

11754. Re: [AT_Sprint] Interference on 20M MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 07:11:22 UTC
From: Peter Martin
Topic: 11750 Message: 11754

!
>
> Could your phone be causing the problem? I struggle with this with a lot of my radios!

I struggle with all mine, even the KX3 is not immune to the dreaded cellphone chattering.

On a summit I either turn the blasted thing off or else put it in my rucksack which I'll leave quite a distance away from the operating position.

It always amazes me that some folks seem to be able to browse the web and operate at the same time!
Mostly I don't have a signal anyway so it's of no value being switched on :-)
Pete

11755. Re: Interference on 20M MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 09:07:58 UTC
From: Barry N1EU
Topic: 11750 Message: 11755

Another piece of info. The antenna was hung off a firetower and the 30ft feedline (LMR100) dropped down vertically in close proximity to the firetower. Perhaps the firetower/feedline was acting as a giant antenna for the interference?

Barry N1EU

On Sat, Sep 14, 2013 at 11:38 PM, Barry N1EU <n1eu.barry@...> wrote:

> My MTR was finished a few weeks ago and I've used it on 4 previous SOTA
> outings with good results. However, while doing an activation this morning
> on 20M, I was experiencing strong interference/hash up and down the band at
> 1400Z. I was in a very rf quiet location on a mountain summit in the
> Adirondacks. The band was nice and quiet and suddenly the hash started
> (perhaps synchronous with clock turning to 1400Z). My antenna was a
> resonant EFHW about 30ft above the summit with clear shot/dropoff in all
> directions. Could that have been some kind of image/IMD/bleed-through from
> strong European SWBC? Anybody else ever experience this or have an
> educated guess?
>
> Tnx/72, Barry N1EU
>

11756. Re: [AT_Sprint] Re: Interference on 20M MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 11:16:41 UTC
From: Lee Hiers
Topic: 11750 Message: 11756

My.guess is that there was a piece of equipment in the fire tower that turned on.

73 de Lee, AA4GA

11757. Re: [AT_Sprint] Re: Interference on 20M MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 11:23:21 UTC
From: Barry N1EU
Topic: 11750 Message: 11757

Perhaps you're right Lee, but I don't remember seeing any wires or antennas on the tower and the hash seemed like voice xmsn going through a super narrow filter.

Barry N1EU

On Sun, Sep 15, 2013 at 11:16 AM, Lee Hiers <lee.hiers@...> wrote:

> **
>
>
> My.guess is that there was a piece of equipment in the fire tower that
> turned on.
>
> 73 de Lee, AA4GA
>
>
>

11758. Re: [AT_Sprint] Interference on 20M MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 07:11:32 UTC
From: ROBERT WILLIAMS
Topic: 11750 Message: 11758

Colin / Barry

I think i've also experiernced some kind of mild image/IMD/bleed-through from strong European SWBC whilst on 20m but it doesn't happen very often and doesn't distract me from my operating.
I've not had any problems with Mobile (Cell) Phone breakthrough.

Am still amazed with the size and operation of this little rig ....

73,
RobG0PEB

MTR #261

From: Colin Evans <m0cgh@...>
To: AT_Sprint@yahoogroups.com
Sent: Sunday, 15 September 2013, 1:35
Subject: Re: [AT_Sprint] Interference on 20M MTR

Barry,
Sometimes I find that my mobile phone produces a whole lot of noise in my MTR, especially when looking at SOTAwatch!
Could your phone be causing the problem? I struggle with this with a lot of my radios.
73,
Colin
M1BUU
On Sep 15, 2013 12:38 AM, "Barry N1EU" <n1eu.barry@...> wrote:

>
>My MTR was finished a few weeks ago and I've used it on 4 previous SOTA outings with good results. However, while doing an activation this morning on 20M, I was experiencing strong interference/hash up and down the band at 1400Z. I was in a very rf quiet location on a mountain summit in the Adirondacks. The band was nice and quiet and suddenly the hash started (perhaps synchronous with clock turning to 1400Z). My antenna was a resonant EFHW about 30ft above the summit with clear shot/dropoff in all directions. Could that have been some kind of image/IMD/bleed-through from strong European SWBC? Anybody else ever experience this or have an educated guess?
>
>Tnx/72, Barry N1EU
>

11759. Re: [AT_Sprint] Interference on 20M MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 11:30:43 UTC
From: Barry N1EU
Topic: 11750 Message: 11759

On Sun, Sep 15, 2013 at 7:11 AM, ROBERT WILLIAMS <
rob2williams@...> wrote:

> **
>
>
>
> I think i've also experiernced some kind of mild image/IMD/bleed-through
> from strong European SWBC whilst on 20m but it doesn't happen very often
> and doesn't distract me from my operating.
>
>
Thanks Rob - the interference was bad enough yesterday to mask stations
that were calling me.

As far as cell phone interference - what is the mechanism? I would think
maybe a phone's cpu clock could be interfering rather than cellphone RF.
But it would just be constant "birdies" rather than what sounded to me like
voice xmsn.

(for some reason, Colin's message wasn't delivered to me - noticing a lot
of issues with the new Yahoo Groups!)

73, Barry N1EU

11760. LED Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 18:37:06 UTC
From: <f_skinner@...>
Topic: 11760 Message: 11760

Does anyone have a source for the thin plastic red LED filter that is taped on the MTR case over the LED display? I was able to hackup an old calculator to make another one but it would be nice to have a sheet of the stuff for when I loose the next one.

Thanks
Frank
K0JQZ

11761. New 80/160 Meter rigs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 20:10:26 UTC
From: Johnny Matlock
Topic: 11761 Message: 11761

Ge Steve
It sounds like we are getting our DDS boards and displays, so i was just wondering how the rest of the project is looking?
Thanks
72
Johnny AC0BQ

11762. Re Interference on 20M MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 20:25:05 UTC
From: cloud runner
Topic: 11762 Message: 11762

I have interference from the cell phone whenever it polls, if it is within five feet of any of the ATS rigs.

fred

11763. Re Interference on 20M MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 20:25:05 UTC
From: cloud runner
Topic: 11762 Message: 11763

I have interference from the cell phone whenever it polls, if it is within five feet of any of the ATS rigs.

fred

11764. Re: [AT_Sprint] New 80/160 Meter rigs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-16 03:42:54 UTC
From: Steven Weber
Topic: 11761 Message: 11764

I guess this is as good a time for an update as any...

I received the boards Friday and I have one almost built up for final testing. I have 98% of the parts. However, I noticed I didn't order enough 14 pins sockets or 0.01 ufd film caps, so need to get those and a few other thing I couldn't get from Mouser.

Of course, there is still lots of work left on the assembly manual and few firmware things to finish up. So, I think we're looking at at least another 2 weeks or so...

Steve KD1JV

Ge Steve
It sounds like we are getting our DDS boards and displays, so i was just wondering how the rest of the project is looking?
Thanks
72
Johnny AC0BQ

11765. Re: [AT_Sprint] LED Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-16 03:47:56 UTC
From: Steven Weber
Topic: 11760 Message: 11765

You'd probably have to buy a package of like 5 sheets. At least that's the way it came when I bought it.

A better way is to look for old LED clock radios at yard sales. No only do you get an official red filter, you get a bunch of other useful parts in side.

Steve KD1JV

Does anyone have a source for the thin plastic red LED filter that is taped on the MTR case over the LED display? I was able to hackup an old calculator to make another one but it would be nice to have a sheet of the stuff for when I loose the next one.

11766. SLQS Annual Tailgate Sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 15:25:53 UTC
From: dgauding
Topic: 7417 Message: 11766

The St. Louis QRP Society is holding its annual Tailgate Sale the evening of Wednesday, September 18, 2013. 6:00 p.m until everyone goes home.

We will be at our usual location - the south east parking lot of Florissant Valley Community College - just south of the new Engineering Building.

Never a charge to sell or browse. Bring gear and money to buy more or better yet - do both! Plan to talk a lot about QRP and homebrew for starters or just visit for a spell.

Brats off the grill & sodas for the hungry and thirsty. Antennas and radios available for those wishing to get on the air or bring your own rig along.

E-mail dgauding@... for driving directions or more info.

Hope you can be with us.

Best regards,

Dave Gauding, NF0R FOR THE ST. LOUIS QRP SOCIETY

11767. Re: [AT_Sprint] LED Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-15 19:03:10 UTC
From: wb6kwt
Topic: 11760 Message: 11767

Go to a camera shop and buy a red filer, they come in sheets.

Bob

Sent from my iPad

On Sep 15, 2013, at 1:37 PM, <f_skinner@...> wrote:

> Does anyone have a source for the thin plastic red LED filter that is taped on the MTR case over the LED display? I was able to hackup an old calculator to make another one but it would be nice to have a sheet of the stuff for when I loose the next one.
>
>
> Thanks
> Frank
> K0JQZ
>

11768. Re: [AT_Sprint] New 80/160 Meter rigs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-16 11:52:39 UTC
From: Johnny
Topic: 11761 Message: 11768

Tnx for the update Steve
72
Johnny AC0BQ

Sent from my iPad

On Sep 15, 2013, at 10:42 PM, "Steven Weber" <steve.kd1jv@...> wrote:

> I guess this is as good a time for an update as any...
>
> I received the boards Friday and I have one almost built up for final testing. I have 98% of the parts. However, I noticed I didn't order enough 14 pins sockets or 0.01 ufd film caps, so need to get those and a few other thing I couldn't get from Mouser.
>
> Of course, there is still lots of work left on the assembly manual and few firmware things to finish up. So, I think we're looking at at least another 2 weeks or so...
>
> Steve KD1JV
>
> Ge Steve
> It sounds like we are getting our DDS boards and displays, so i was just wondering how the rest of the project is looking?
> Thanks
> 72
> Johnny AC0BQ
>
>

11769. Re: [AT_Sprint] LED Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-16 14:44:26 UTC
From: Michael O'Bannon
Topic: 11760 Message: 11769

Search for "106 Primary Red Gel Filter Sheet" on Amazon.

73,
Michael KD4AGN

>
>> Does anyone have a source for the thin plastic red LED filter that
>> is taped on the MTR case over the LED display? I was able to
>> hackup an old calculator to make another one but it would be nice
>> to have a sheet of the stuff for when I loose the next one.
>>
>>
>> Thanks
>> Frank
>> K0JQZ
>
>
>

11770. Re: [AT_Sprint] LED Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-16 14:53:51 UTC
From: Lee Hiers
Topic: 11760 Message: 11770

On Sun, Sep 15, 2013 at 11:47 PM, Steven Weber <steve.kd1jv@...>wrote:

>
> You'd probably have to buy a package of like 5 sheets. At least that's the
> way it came when I bought it.
>

You used to be able to get free (or more lately, cheap) sample packs of filters that is a book of 100+ 1" x 2.5" or so "swatches" - look for Lee Filters or Rosco filters...I know I got several packs of the the free Rosco samplers from B&H years ago - they ended up in great demand when folks with strobes (like me) started getting the freebies to use on their small flashes. In fact, B&H is now selling a special pack just for that purpose:

http://www.bhphotovideo.com/c/product/634658-REG/Rosco_1100STROBKIT_Strobist_55_Piece_Filter_Kit.html

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

11771. Re: [AT_Sprint] LED Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-16 14:56:10 UTC
From: Lee Hiers
Topic: 11760 Message: 11771

On Mon, Sep 16, 2013 at 10:53 AM, Lee Hiers <lee.hiers@...> wrote:

> You used to be able to get free (or more lately, cheap) sample packs of
> filters that is a book of 100+ 1" x 2.5" or so "swatches" - look for Lee
> Filters or Rosco filters

Here's the sample pack I used to get free:

http://www.adorama.com/ROSB.html

11772. Re: [AT_Sprint] LED Filter

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-16 22:17:42 UTC
From: Frank Skinner
Topic: 11760 Message: 11772

Thanks all.....

73
Frank
K0JQZ

Sent from my iPad

On Sep 15, 2013, at 9:47 PM, "Steven Weber" <steve.kd1jv@...> wrote:

> □
>
>
> You'd probably have to buy a package of like 5 sheets. At least that's the way it came when I bought it.
>
> A better way is to look for old LED clock radios at yard sales. No only do you get an official red filter, you get a bunch of other useful parts in side.
>
> Steve KD1JV
>
>
> Does anyone have a source for the thin plastic red LED filter that is taped on the MTR case over the LED display? I was able to hackup an old calculator to make another one but it would be nice to have a sheet of the stuff for when I loose the next one.
>

11773. Is a 12m rig possible?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-18 17:32:13 UTC
From: Colin Tuckley
Topic: 11773 Message: 11773

Steve,

Summits on the Air (SOTA) have a "12m Challenge" running at the moment.

People have been bemoaning the lack of a small 12m CW capable rig, the choice for a rig for portable 12m CW seems to be between the FT817 and the KX3.

How difficult would it be to produce a rig similar to the MTR but which did, say, 12m and 10m (or 15m and 12m)? Maybe you might be interested in looking at this "12m rig challenge" after you have the 160/80 rig out the door.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x38C9D903

There is no dark side of the moon. Really.

11774. ATS3B Trimmer values

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-18 20:00:31 UTC
From: Colin Tuckley
Topic: 11774 Message: 11774

I have an original ATS-3B the one where all the band module trimmers are brown but some of them have coloured stripes as follows:

80m & 40m BRN/GRN
30m BRN/RED
20m 17m & 15m Plain BRN

The build manual doesn't give values for them.

Does anyone know what values they are?

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x38C9D903

There is no dark side of the moon. Really.

11775. Re: [AT_Sprint] Is a 12m rig possible?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-19 16:38:37 UTC
From: Steven Weber
Topic: 11773 Message: 11775

Sadly, it is not possible. The simple transmitter design which makes the ATS/MTR possible becomes very touchy above 15M. Even 15 is pushing it a little into danerous territory.

The other issue is increased current draw as the DDS chip would need to be clocked at 75 MHz. The chip I use now is rated for 50 MHz, although it probably would work okay at 75. They sell selected chips which are specified to 75 MHz for a few more dollars.

What might be possible is to use the BS170 PA as a driver to a real RF mosfet. I don't think I'd do a single board design this way as there probably isn't enough interest since 12 and 10 are effectively dead bands and getting deader and deader. I see those bands as a waste of time and money. There just doesn't seem to be life below 20M.

What I probably could do is use the 160/80 rig as a platform to test the concept. It already has the 9850 board good up to 30 MHz. The only question would be how to drive an external amplifer (like a RD16HH1 RF MOSFET) to keep the BS170's happy. Maybe a link coupling off the Drain choke.

The only problem with this set up is it wasn't designed to be real portable or current efficient. The 9850 board draws about 120 ma by it's self. OTOH, this is still a reasonably small rig and would still be lighter and more battery friendly than say a FT817.

Great, all I need is another project :)

72, Steve KD1JV

>
> How difficult would it be to produce a rig similar to the MTR but which
> did, say, 12m and 10m (or 15m and 12m)? Maybe you might be interested in
> looking at this "12m rig challenge" after you have the 160/80 rig out
> the door.
>
> Colin G8TMV
>

11776. RE: [AT_Sprint] Is a 12m rig possible?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-19 17:14:02 UTC
From: Dale Putnam
Topic: 11773 Message: 11776

How about a 160 - 20 rig, optimized for 5 or less out... the optional amp external boxed... or daughter board plug in...with possibly a plug in tuner optional... keep the HOT rx, and good filtering., maybe an audio filter optional for those thathave to have single signal rx. yes, bigger case, but not all that much larger... maybe about the size of the Tribander.. and a bit thicker... with batterypower, as many are now solar powered, even in the fixed location. Yes, mains are "close" but expensive too. And I rather like having my on the air time paid for with sun power.
Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Thu, 19 Sep 2013 12:38:37 -0400
Subject: Re: [AT_Sprint] Is a 12m rig possible?

Sadly, it is not possible. The simple transmitter design which makes the

ATS/MTR possible becomes very touchy above 15M. Even 15 is pushing it a

little into danerous territory.

The other issue is increased current draw as the DDS chip would need to be

clocked at 75 MHz. The chip I use now is rated for 50 MHz, although it

probably would work okay at 75. They sell selected chips which are specified

to 75 MHz for a few more dollars.

What might be possible is to use the BS170 PA as a driver to a real RF

mosfet. I don't think I'd do a single board design this way as there

probably isn't enough interest since 12 and 10 are effectively dead bands

and getting deader and deader. I see those bands as a waste of time and

money. There just doesn't seem to be life below 20M.

What I probably could do is use the 160/80 rig as a platform to test the

concept. It already has the 9850 board good up to 30 MHz. The only question

would be how to drive an external amplifer (like a RD16HH1 RF MOSFET) to

keep the BS170's happy. Maybe a link coupling off the Drain choke.

The only problem with this set up is it wasn't designed to be real portable

or current efficient. The 9850 board draws about 120 ma by it's self. OTOH, this is still a reasonably small rig and would still be lighter and more battery friendly than say a FT817.

Great, all I need is another project :)

72, Steve KD1JV

>

> How difficult would it be to produce a rig similar to the MTR but which

> did, say, 12m and 10m (or 15m and 12m)? Maybe you might be interested in

> looking at this "12m rig challenge" after you have the 160/80 rig out

> the door.

>

> Colin G8TMV

>

11777. Re: [AT_Sprint] Is a 12m rig possible?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-19 23:26:23 UTC
From: Barry N1EU
Topic: 11773 Message: 11777

On Thu, Sep 19, 2013 at 4:38 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> 12 and 10 are effectively dead bands
> and getting deader and deader. I see those bands as a waste of time and
> money. There just doesn't seem to be life below 20M.
>
> As one of the bemoaners Colin mentioned, let me be the first to attempt to
dissuade everyone of the attitude that 12M is dead and a "waste of time".

I applaud the efforts of SOTA management to encourage more 12M activity. Because of that, I've started to check out 12M whenever I've got my KX3 on a summit in the afternoon. What I've found is a quiet band with relatively loud qrp signals. I routinely work into Europe and the west coast and receive reports of 559-599. In a 4 minute stretch on Saturday, I was called by DJ5AV, N5XL, UR5NL and N6KZ. In 3 minutes yesterday, I was called by DJ5AV, DK1DVE, K6EL and IK4AVY. Similarly, I worked 3 guys on the west coast today from the Adirondacks.

12M really is an amazing band that is under-promoted. I understand that unfortunately we might never see a 12M cw rig under 1.5lb weight. But things sure could be worse ;-)

72, Barry N1EU

11778. Re: [AT_Sprint] Is a 12m rig possible?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-20 00:36:19 UTC
From: Hank Greeb
Topic: 11773 Message: 11778

Do you evernotice that, more often than not, 10 meters "magically" opens up during a 10 meter contest such as the ARRL 10 meter contest, the 10-10 international contests,CQ WW, etc?

Activity breeds activity - one can often call CQ for many minutes, ifnot hours, on 10 meters with nary a response during a weekday, but things often change dramatically whenthere's a contest involving the band.

72/73 de n8xx Hg
QRP >99.44% of the time

On 9/19/2013 7:26 PM, Barry N1EU wrote:
>
>
>
>
>
> On Thu, Sep 19, 2013 at 4:38 PM, Steven Weber <steve.kd1jv@...
> <mailto:steve.kd1jv@...>> wrote:
>
> 12 and 10 are effectively dead bands
> and getting deader and deader. I see those bands as a waste of
> time and
> money. There just doesn't seem to be life below 20M.
>
> As one of the bemoaners Colin mentioned, let me be the first to
> attempt to dissuade everyone of the attitude that 12M is dead and a
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>
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> quiet band with relatively loud qrp signals. I routinely work into
> Europe and the west coast and receive reports of 559-599. In a 4
> minute stretch on Saturday, I was called by DJ5AV, N5XL, UR5NL and
> N6KZ. In 3 minutes yesterday, I was called by DJ5AV, DK1DVE, K6EL and
> IK4AVY. Similarly, I worked 3 guys on the west coast today from the
> Adirondacks.
>
> 12M really is an amazing band that is under-promoted. I understand
> that unfortunately we might never see a 12M cw rig under 1.5lb
> weight. But things sure could be worse ;-)
>
> 72, Barry N1EU
>

11779. Re: [AT_Sprint] Is a 12m rig possible?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-20 04:40:04 UTC
From: Jason
Topic: 11773 Message: 11779

Actually, I think 10m is open daily, but just long distances. Recently I've worked Hawaii and Japan (Hawaii QSO Party and All Asian DX Contest) on 10m when there was nothing else on the band. One year in the minimum during the December 10m SSB contest I went out portable with a Buddipole dipole at 18ft and worked a few South American stations and one Hawaiian who was weak and too close, :).

Jason - N6WBL

On 9/19/2013 5:36 PM, Hank Greeb wrote:

Do you ever notice that, more often than not, 10 meters "magically" opens up during a 10 meter contest such as the ARRL 10 meter contest, the 10-10 international contests, CQ WW, etc?

Activity breeds activity - one can often call CQ for many minutes, if not hours, on 10 meters with nary a response during a week day, but things often change dramatically when there's a contest involving the band.

72/73 de n8xx Hg
QRP >99.44% of the time

11780. RE: [AT_Sprint] Is a 12m rig possible?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-20 12:46:56 UTC
From: Mike Olbrisch
Topic: 11773 Message: 11780

I concur. FWIW, the 12m band has had some activity just about any day I look at it. And not just local stuff... in fact no local stuff at all. Bolivia, Panama, Guadalupe and Brazil are right on the top page of my log, along with several US and Canadian stations on 12m.

I can see where it might not be worth Steve's effort to build 12m into a radio like the ATS-3 or ATS-4. I am not certain it would be much in demand over 20m-30m-40m. But don't discount 12m along with 10m and pronounce it DEAD.

Then again, it is always nice and quiet as not many clog it up. I really like 12m when I am Pedestrian Mobile - always someone to contact, but not too crowded like 20m.

Vy73 - Mike - KD5KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Barry N1EU
Sent: Thursday, September 19, 2013 17:26
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Is a 12m rig possible?

As one of the bemoaners Colin mentioned, let me be the first to attempt to dissuade everyone of the attitude that 12M is dead and a "waste of time". I applaud the efforts of SOTA management to encourage more 12M activity. Because of that, I've started to check out 12M whenever I've got my KX3 on a summit in the afternoon. What I've found is a quiet band with relatively loud qrp signals. I routinely work into Europe and the west coast and receive reports of 559-599. In a 4 minute stretch on Saturday, I was called by DJ5AV, N5XL, UR5NL and N6KZ. In 3 minutes yesterday, I was called by DJ5AV, DK1DVE, K6EL and IK4AVY. Similarly, I worked 3 guys on the west coast today from the Adirondacks.
12M really is an amazing band that is under-promoted. I understand that unfortunately we might never see a 12M cw rig under 1.5lb weight. But things sure could be worse ;-)
72, Barry N1EU

11781. Re: [AT_Sprint] ATS3B Trimmer values

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-20 17:06:23 UTC
From: Steven Weber
Topic: 11774 Message: 11781

I think the ones which have the green stripe added are 70 pfd and the others are 40? something like that.
Steve KD1JV

>I have an original ATS-3B the one where all the band module trimmers are
> brown but some of them have coloured stripes as follows:
>
> 80m & 40m BRN/GRN
> 30m BRN/RED
> 20m 17m & 15m Plain BRN
>
> The build manual doesn't give values for them.
>
> Does anyone know what values they are?
>
> Colin G8TMV

11782. Re: [AT_Sprint] ATS3B Trimmer values

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-21 14:17:17 UTC
From: Colin Tuckley
Topic: 11774 Message: 11782

On 20/09/13 18:06, Steven Weber wrote:

> I think the ones which have the green stripe added are 70 pfd and the
> others are 40? something like that.

Thanks Steve.

A while ago I asked if you had any ATS3B band module boards spare - I'd like to build a module for 60m.

Did you find any?

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x38C9D903

11783. ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-23 05:42:46 UTC
From: Owen B. Mehegan
Topic: 11783 Message: 11783

I just finished assembly of my ATS-4a! I was hoping against hope that when I powered it up the first time it would "just work," but unfortunately that's not the case. When I press the power button the display backlight comes on for a moment, then shuts off. With headphones connected I hear a hiss if I hold down the power button, but the backlight doesn't stay on in that case. Tomorrow I'll try the troubleshooting steps under the "Power comes on but turns right off" section in the manual. Anyone have any other tips? Thanks!
--
owen@... (Owen B. Mehegan)
'Something is rotten in the state of Denmark.'
--William Shakespeare

11784. Re: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-23 07:17:54 UTC
From: Anders Wandahl
Topic: 11783 Message: 11784

I had similar problem. A bad Q3 was the cause.

Good luck!

Anders SM0HPL

11785. RE: Re: [AT_Sprint] ATS-4b blind display - help!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-23 20:19:53 UTC
From: <hb9bqb@...>
Topic: 11579 Message: 11785

Yes Steve I fixed the Display, thank you!

Sorry for late response, I was in holiday

1. when I removed the backlight plate I saw a few cracks on the glass under the black area of the display, so I had to replace it.

Fortunately our local electronic parts distributor had this displays on stock.

2. I could even choose between severals different colours. So I took the white display with amber backlight. The white one is more reflective for outdoor use and in plain sun (SOTA use) and also amber backlight seems to have a bit more contrast as the green one.

Part number for the display is: EA DOGM132W-5 and the backlight EA LED55X31-A

so I am happy again with my ATS-4b and today- a wonderful sunny and warm autum day - I used it on a SOTA activation in the swiss alps.

73, gl

Guido

HB9BQB

--- In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

> My beloved ATS-4b did not survive falling down to the ground from the
> table. The display is blank, the TX/RX still works, the display shows no
> vislible damage. Backlight OK.

Guido - were you able to fix this?

Steve KD1JV

11786. RE: Description of the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-23 20:21:22 UTC
From: <earle.craig@...>
Topic: 11708 Message: 11786

Hello Everyone,

I just uploaded a revised 1_Power Supply.pdf to my folder
http://groups.yahoo.com/neo/groups/AT_Sprint/files/AB6WL

I expanded the explanation of Filter and Bypass Capacitors for DC Power Supply circuits.

Best regards,

Earle
AB6WL

--- In at_sprint@yahoogroups.com, <alphaindia4oscartango@...> wrote:

Good work! 73 de chas ai4ot

Sent from my Verizon Wireless 4G LTE Smartphone

11787. RE: [AT_Sprint] RE: Description of the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-24 15:09:44 UTC
From: Hinds, Don
Topic: 11708 Message: 11787

Earle,
I have only scratched the surface of your document, but it is clearly an impressive work. I plan to enjoy it fully. Thank you for putting this together.
73,
Don
WD4ON

11788. Re: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-24 17:03:46 UTC
From: TJ Campie
Topic: 11584 Message: 11788

Can someone link to examples of the proper parts for this "kit?" I don't want to build a 160/80m rig but I do need a wide band signal generator and I think I could swing $16 for this combo... Just the VFO and the display I guess if that is all I would need.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
http://W0EA.us
Because QRO is too easy

On Sat, Aug 31, 2013 at 4:53 AM, <xv4y@...> wrote:

> **
>
>
> Steve, group members,
>
>
> I would like to make just one precision.
>
> The display controller must be Hitachi HD44780 compatible (chinese SD44780
> works great).
>
> That's the case for most.
>
> Some "very cheap" LCD use other controllers and are not compatible.
>
>
> IC-Station (http://icstation.com) and chip_partner (on eBay) are reliable
> and ship to VN, so they must do the same to other "exotic" countries.
> I second you recommending only the AD9850 with two pin rows, I had many
> problems with the others from various providers.
>
>
> 73,
>
> Yan - XV4Y.
>
> ---
>
> http://www.qscope.org/
>

>
> --- In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:
>
> That's odd, wonder why? Maybe it's not lead free.
>
> Any 2X16 LCD will work. The only difference is where the connections are
> located and the color of the back lighting. Yellow/green is common and I
> think easier on the eyes then the blue.
>
> Steve KD1JV
>
>
> > Hi Steven
> > thank you for this information
> > i could order a DDS (3) :-))
> > But
> > it is not possible to order a display They don t ship it to germany
> >
> > any recommendations for a second brand ?
> >
> > thank you
> > regards
> > Manfred
>
>
>

11789. MTR @3 v

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-24 21:29:29 UTC
From: Bob Cutter
Topic: 11789 Message: 11789

My MTR and 9v battery finally quit at 3v after many Q's.

Another great rig, thank you Steve.

72, Bob KIØG

11790. Re: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-24 21:50:38 UTC
From: Steven Weber
Topic: 11584 Message: 11790

What you need then is a USB prorammable Atmel demo board for the controller and my universal VFO/Signal generator firmware for the demo board :
http://kd1jv.qrpradio.com/XMEGA/AD9850controller.pdf

Can someone link to examples of the proper parts for this "kit?" I don't want to build a 160/80m rig but I do need a wide band signal generator and I think I could swing $16 for this combo... Just the VFO and the display I guess if that is all I would need.

73, W0EA
TJ

11791. Re: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-24 22:08:53 UTC
From: Peter W. Borders
Topic: 11584 Message: 11791

Great project. Just one note. The link to the zip file for the firmware has .con instead of .com in it so it doesn't work unless you copy and paste, then edit it.

Pete B. - WB4TKA

On Tue, Sep 24, 2013 at 5:50 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
>
> What you need then is a USB prorammable Atmel demo board for the
> controller and my universal VFO/Signal generator firmware for the demo
> board : http://kd1jv.qrpradio.com/XMEGA/AD9850controller.pdf
>
> Can someone link to examples of the proper parts for this "kit?" I don't
> want to build a 160/80m rig but I do need a wide band signal generator and
> I think I could swing $16 for this combo... Just the VFO and the display I
> guess if that is all I would need.
>
> 73, W0EA
> TJ
> ----
>
>
>
>
>

11792. Re: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-26 01:00:51 UTC
From: Steven Weber
Topic: 11584 Message: 11792

I keep forgeting to fix that..
Steve
Great project. Just one note. The link to the zip file for the firmware has .con instead of .com in it so it doesn't work unless you copy and paste, then edit it.

Pete B. - WB4TKA

On Tue, Sep 24, 2013 at 5:50 PM, Steven Weber <steve.kd1jv@...> wrote:

What you need then is a USB prorammable Atmel demo board for the controller and my universal VFO/Signal generator firmware for the demo board :
http://kd1jv.qrpradio.com/XMEGA/AD9850controller.pdf

Can someone link to examples of the proper parts for this "kit?" I don't want to build a 160/80m rig but I do need a wide band signal generator and I think I could swing $16 for this combo... Just the VFO and the display I guess if that is all I would need.

73, W0EA
TJ

11793. RE: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-26 05:50:34 UTC
From: <owen@...>
Topic: 11783 Message: 11793

OK, I reflowed the solder on Q3 and now the rig stays powered on - at least, now I hear continuous hiss in the headphones. I still see nothing on the screen, AND the backlight only stays on momentarily (not sure if that is normal).

I reflowed the leads for X6 and its connections to U9. That didn't help. Then I checked power to U9. I only see 1.45v on pin 2, instead of the specified 3.3v. I see good ground to pin 4 at least. I haven't checked L25 yet - is that where I should go next, given the low voltage to pin 2 of U9?

---In at_sprint@yahoogroups.com, <anders@...> wrote:

I had similar problem. A bad Q3 was the cause.

Good luck!

Anders SM0HPL

11794. update of the ATS-3B firmware, Vojtech's version

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-26 10:47:52 UTC
From: <bubnikv@...>
Topic: 11794 Message: 11794

Hi gang.

For my entertainment and to support my experiments, I added couple of features to the ATS-3b firmware. The previous version of my firmware has been successfully tested by Wulf-Gerd, DL1FAC on a stock ATS-3b, therefore I hope this version will work on a stock ATS-3b as well. Wulf-Gerd fixed two bugs in by preceding firmware version: voltage readout and VFO-B initialization.

You will find the zip archive ats3bv-1.6.zip (http://f1.grp.yahoofs.com/v1/xA5EUpXkAv4YnnqO1btigBEa4nmyOtYGahtTJndPTouBJwtm4J3KOnmJ46BlsOIVwsr3BRiYn1R2qYhLO7f89RC1eow/OK1IAK/ats3bv-1.6.zip) in the OK1IAK folder of the files section. I collected all my postings regarding the preceding versions of the firmware into the archive, including the WSPR beacon code generator.

First, there is a receive-only mode, which allows selection of a receive band by tune up / down buttons on power on. The mode is useful for experimenting with receiving only antennas like a small tuned magnetic loop antenna. I built a simple band module on a perf board with a band resistor value between 80m (open) and 40m. There is no band filter on this simple band module. I also modded by ATS-3b receiver by adding a transistor before the IF filter to improve SNR of the receiver. The idea was borrowed from Elecraft K1 and KX1 receivers. The modified receiver has enough sensitivity, that a 40cm diameter loop made of 6mm aluminium tube provides around 10dB more band noise over the receiver noise indoors. It was an eye opener to me regarding the efficiency of an indoor antenna.

Then there is an automatic power off feature, switching the radio off after 15 minutes of inactivity. Working only with my modified hardware.

At the end, the most interesting feature I believe. I added an automatic readout of frequency and battery voltage by scrolling on a single digit display. The frequency and battery voltage scrolls once every 10 seconds automatically. The scrolling may be interrupted at any time with any button or paddle. Hundreds of kHz are not shown, if zero. Tenths of volts are not shown, if zero. Every digit lights for half a second. The decimal point is lit with the 1s of kHz digit and with 1s of volts digit.

During tuning, the 1s of kHz digit is continuously displayed. Once tuning stops, the display dimms for half a second and then the complete frequency scrolls, without being followed by the battery voltage. This way the battery voltage does not disturb the tuning process. After 5 seconds of idle, the frequency will scroll, this time followed by the battery voltage readout.

The battery voltage readout is extremely important for those using lithium ion chemistry accumulators (LiIon, LiPol or LiFePO4). If those accumulators are dischared below certain voltage per cell, they are destroyed. It seems natural to trigger battery readout manually time to time, but it happened to me couple of times, that I was surprised with an unusual behavior of my ATS-3b radio and then found out, that the voltage reading of the battery pack dropped deep below 5V. Interestingly, my LiFePO4 cells survived these deep discharges to some extent, but I would not recommend it.

73, Vojtech OK1IAK

11795. RE: MTR @3 v

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-26 10:49:33 UTC
From: <bubnikv@...>
Topic: 11789 Message: 11795

Bob,

A reasonable minimum voltage, at which the radio shall work reliably, is around 5.5V. If ran at lower voltage, the voltage regulators do not regulate anymore.

73, Vojech OK1IAK

---In at_sprint@yahoogroups.com, <ki0g@...> wrote:

My MTR and 9v battery finally quit at 3v after many Q's.

Another great rig, thank you Steve.

72, Bob KIØG

11796. Re: MTR @3 v

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-26 07:30:08 UTC
From: Wilford Lindsey
Topic: 11789 Message: 11796

Bob:

Many kudos to you Sir for getting this new rig together, and I hope you enjoy using it for many years to come!

73,
Doc/K0EVZ

Sent from my iPhone

11797. Re: [AT_Sprint] RE: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-26 08:49:12 UTC
From: Anders Wandahl
Topic: 11783 Message: 11797

At least some progress ;) As a matter of fact I had initial problems with my display as well. The reason was that I had followed the manual saying that "To make removal of the display easier, it helps to first plug something else in and out of the IC socket several times, like a dip IC to take some of the tension out of the socket leafs". I did this too thoroughly and ended up with the same problem as you describe. After exercising the socket the opposite way I managed to cope with this.

Good luck!

Anders SM0HPL

On 2013-09-26 07:50, owen@... wrote:
>
> OK, I reflowed the solder on Q3 and now the rig stays powered on - at
> least, now I hear continuous hiss in the headphones. I still see
> nothing on the screen, AND the backlight only stays on momentarily
> (not sure if that is normal).
>
>
> I reflowed the leads for X6 and its connections to U9. That didn't
> help. Then I checked power to U9. I only see 1.45v on pin 2, instead
> of the specified 3.3v. I see good ground to pin 4 at least. I haven't
> checked L25 yet - is that where I should go next, given the low
> voltage to pin 2 of U9?
>
>
>
> ---In at_sprint@yahoogroups.com, <anders@...> wrote:
>
> I had similar problem. A bad Q3 was the cause.
>
> Good luck!
>
> Anders SM0HPL
>

11798. Re: [AT_Sprint] RE: MTR @3 v

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-26 14:35:08 UTC
From: Hank Greeb
Topic: 11789 Message: 11798

Vojech

Yup, you're so right! Steve has told that here, and probably in the specs.

But, it would appear that the thing WILL work down to 3 volts or so in a pinch. :)

That's called "runningbelow specs."

72/73 de n8xx Hg
QRP >99.44% of the time

On 9/26/2013 6:49 AM, bubnikv@... wrote:
>
> Bob,
>
> A reasonable minimum voltage, at which the radio shall work reliably,
> is around 5.5V. If ran at lower voltage, the voltage regulators do not
> regulate anymore.
>
> 73, Vojech OK1IAK
>
>
> ---In at_sprint@yahoogroups.com, <ki0g@...> wrote:
>
> My MTR and 9v battery finally quit at 3v after many Q's.
>
> Another great rig, thank you Steve.
>
> 72, Bob KIØG

11799. Re: update of the ATS-3B firmware, Vojtech's Version

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-26 14:47:09 UTC
From: Jonathan
Topic: 11799 Message: 11799

Vojtech,
I haven't tried your firmware yet, but the description is impressive. Thank you for the immense contribution you've made to this group. The "Bee" is my main QRP rig, and I for one appreciate that you're doing this.
72,
Jonathan KC7FYS

11800. Re: [AT_Sprint] RE: MTR @3 v

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-26 16:01:50 UTC
From: Steven Weber
Topic: 11789 Message: 11800

>>But, it would appear that the thing WILL work down to 3 volts or so in a pinch. :)

Well, sort of. The mixers start to crap out at 4.5 volts, at 3 they are hardly working.

Steve KD1JV

11801. RE: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-26 17:47:09 UTC
From: <owen@...>
Topic: 11783 Message: 11801

Given the low voltage at pin 2 of U9, I suspect there is more wrong than just a problem with the display. I did not attempt to loosen up the socket before inserting it (didn't have any DIP ICs on hand). Is there anything I can do with the function buttons that might let me know if everything else was working? Can I get the rig to announce the frequency over the headphones, for example? I don't see anything about that in the manual.

---In at_sprint@yahoogroups.com, <anders@...> wrote:

At least some progress ;) As a matter of fact I had initial problems with my display as well. The reason was that I had followed the manual saying that "To make removal of the display easier, it helps to first plug something else in and out of the IC socket several times, like a dip IC to take some of the tension out of the socket leafs". I did this too thoroughly and ended up with the same problem as you describe. After exercising the socket the opposite way I managed to cope with this.

Good luck!

Anders SM0HPL

On 2013-09-26 07:50, owen@... wrote:

OK, I reflowed the solder on Q3 and now the rig stays powered on - at least, now I hear continuous hiss in the headphones. I still see nothing on the screen, AND the backlight only stays on momentarily (not sure if that is normal).

I reflowed the leads for X6 and its connections to U9. That didn't help. Then I checked power to U9. I only see 1.45v on pin 2, instead of the specified 3.3v. I see good ground to pin 4 at least. I haven't checked L25 yet - is that where I should go next, given the low voltage to pin 2 of U9?

---In at_sprint@yahoogroups.com, <anders@...> wrote:

I had similar problem. A bad Q3 was the cause.

Good luck!

Anders SM0HPL

11802. Re: [AT_Sprint] Re: MTR @3 v

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-26 20:14:55 UTC
From: Gil G.
Topic: 11789 Message: 11802

Hello,

I've run mine down to 6V, and of course it worked just fine.. I got three 1050mAh Lipo battery packs for it and can't find a straight answer as to how low they can be discharged without damage. I've read 2.5 to 3.7V. It seems to depend on voltage under load. The MTR draws what, 700mA on TX? That's much less than say, a RC helicopter! So, any advise as to the minimum total voltage for my 3S packs with the MTR? 9V?

It is nice to know that I could drain the battery to destruction with the MTR if I really needed it!

Thanks,

Gil.

11803. RE: Re: [AT_Sprint] Re: MTR @3 v

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-27 04:52:24 UTC
From: <scottsa1ls@...>
Topic: 11789 Message: 11803

Hi Gil. My name is Scotty. About 6 months ago I got some 3S lipos to use on my HB1B for backyard use. Everything I've read online and in the instruction manual for charging the batteries says a full charge is 4.2V per cell which will give you a start voltage of around 12.6V. Like you I was unsure how low I could go while discharging . The manual says no lower than 3 volts per cell or it shortens the lifetime of recharges you could possibly get. That would take you down to 9 volts before stopping to either recharge or just swap out for a new charged up battery. While reading from many sources on the internet, to be on the safe side I see many people only go to 3.3 V per cell or total 9V for a stopping point. That's what I do. The TEN TEC flyer on the HB1B says 9 to 14 volts. It draws about 800ma on send. The radio has a voltage readout so I can tell at a glance what the total volts left are at any time. Lipo's last the longest using a balanced charge setup. Hobby KIng makes a small voltage monitor that plugs into your balance lead and it tells you with red and green lights when you are reaching the 3.3 volt per cell limit. I think it costs about $ 2.50. When any one of the cells drops below the 3.3 limit this device lets out a horrendous screech. Guys running motorized Gliders Can here this and know it's time to land or your battery will soon be Kaput! So I guess it's up to you. I use my HB1B for 2 hour sprints using an 850ma 3S lipo. I have yet to hit the 9 volt limit. I call CQ alot so these suckers last a long time. You are perfectly safe at the 9.9 volts but you could safely to to 9V or 3.3V per cell. Just be sure you are balance charging to get the most life out of your battery. Anyway , I hope this helped to answer your question. All the Best de Scotty KG3W

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

Hello,

I've run mine down to 6V, and of course it worked just fine.. I got
three 1050mAh Lipo battery packs for it and can't find a straight answer
as to how low they can be discharged without damage. I've read 2.5 to
3.7V. It seems to depend on voltage under load. The MTR draws what,
700mA on TX? That's much less than say, a RC helicopter! So, any advise
as to the minimum total voltage for my 3S packs with the MTR? 9V?

It is nice to know that I could drain the battery to destruction with
the MTR if I really needed it!

Thanks,

Gil.

11804. RE: RE: Re: [AT_Sprint] Re: MTR @3 v

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-27 05:07:35 UTC
From: <scottsa1ls@...>
Topic: 11789 Message: 11804

Sorry Gil, I just proof read my entry DUH!! 3.3 +3.3+3.3 = 9.9 volts . NOT 9. I stop using my batteries around 10 or 9.9 volts. total. You could got to 9 volts, but I chose to stop at 9.9. Sorry about the confusion. de Scotty KG3W

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

Hi Gil. My name is Scotty. About 6 months ago I got some 3S lipos to use on my HB1B for backyard use. Everything I've read online and in the instruction manual for charging the batteries says a full charge is 4.2V per cell which will give you a start voltage of around 12.6V. Like you I was unsure how low I could go while discharging . The manual says no lower than 3 volts per cell or it shortens the lifetime of recharges you could possibly get. That would take you down to 9 volts before stopping to either recharge or just swap out for a new charged up battery. While reading from many sources on the internet, to be on the safe side I see many people only go to 3.3 V per cell or total 9V for a stopping point. That's what I do. The TEN TEC flyer on the HB1B says 9 to 14 volts. It draws about 800ma on send. The radio has a voltage readout so I can tell at a glance what the total volts left are at any time. Lipo's last the longest using a balanced charge setup. Hobby KIng makes a small voltage monitor that plugs into your balance lead and it tells you with red and green lights when you are reaching the 3.3 volt per cell limit. I think it costs about $ 2.50. When any one of the cells drops below the 3.3 limit this device lets out a horrendous screech. Guys running motorized Gliders Can here this and know it's time to land or your battery will soon be Kaput! So I guess it's up to you. I use my HB1B for 2 hour sprints using an 850ma 3S lipo. I have yet to hit the 9 volt limit. I call CQ alot so these suckers last a long time. You are perfectly safe at the 9.9 volts but you could safely to to 9V or 3.3V per cell. Just be sure you are balance charging to get the most life out of your battery. Anyway , I hope this helped to answer your question. All the Best de Scotty KG3W

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

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3.7V. It seems to depend on voltage under load. The MTR draws what,
700mA on TX? That's much less than say, a RC helicopter! So, any advise
as to the minimum total voltage for my 3S packs with the MTR? 9V?

It is nice to know that I could drain the battery to destruction with
the MTR if I really needed it!

Thanks,

Gil.

11805. RE: RE: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-28 18:40:31 UTC
From: <owen@...>
Topic: 11783 Message: 11805

After further examination, I discovered that I mounted U10, the 60 MHz oscillator, rotated 90 degrees from where it should be. I've been trying to desolder it, but I'm having no luck so far despite the use of braid and flux. I've gotten most of the solder off, but it always seems like that last bit is nearly impossible to remove. Anyone have any tips for this?

And it occurs to me to wonder whether I can check if I've damaged the crystal before I put it back in the right orientation. I'd hate to have to desolder it AGAIN. Suggestions?

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

Given the low voltage at pin 2 of U9, I suspect there is more wrong than just a problem with the display. I did not attempt to loosen up the socket before inserting it (didn't have any DIP ICs on hand). Is there anything I can do with the function buttons that might let me know if everything else was working? Can I get the rig to announce the frequency over the headphones, for example? I don't see anything about that in the manual.

---In at_sprint@yahoogroups.com, <anders@...> wrote:

At least some progress ;) As a matter of fact I had initial problems with my display as well. The reason was that I had followed the manual saying that "To make removal of the display easier, it helps to first plug something else in and out of the IC socket several times, like a dip IC to take some of the tension out of the socket leafs". I did this too thoroughly and ended up with the same problem as you describe. After exercising the socket the opposite way I managed to cope with this.

Good luck!

Anders SM0HPL

On 2013-09-26 07:50, owen@... wrote:

OK, I reflowed the solder on Q3 and now the rig stays powered on - at least, now I hear continuous hiss in the headphones. I still see nothing on the screen, AND the backlight only stays on momentarily (not sure if that is normal).

I reflowed the leads for X6 and its connections to U9. That didn't help. Then I checked power to U9. I only see 1.45v on pin 2, instead of the specified 3.3v. I see good ground to pin 4 at least. I haven't checked L25 yet - is that where I should go next, given the low voltage to pin 2 of U9?

---In at_sprint@yahoogroups.com, <anders@...> wrote:

I had similar problem. A bad Q3 was the cause.

Good luck!

Anders SM0HPL

11806. RE: [AT_Sprint] RE: RE: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-28 18:54:00 UTC
From: Dale Putnam
Topic: 11783 Message: 11806

Not likely to have damaged it.. they take a lot. Can you put the radio on a hot plate, let it heat... or cup warmer... let it heat for a while.. then touch the corners with an iron... and lift the clock off the board... THEN SHUT off the cup warmer... let it cool down... BEFORE trying to reset the clock in place. You don't want to move it while the solder is very nearly flowing on the board. Once you have the clock back in place... and correctly oriented.. test it. Should be fine.(voice of experience... had one that had no orientation marks, but it worked... sure.. I had a 50-50 shot of getting it right... the first time...but I had a 100percent chance the second)

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: owen@...
Date: Sat, 28 Sep 2013 11:40:31 -0700
Subject: [AT_Sprint] RE: RE: ATS-4a first power up: immediately shuts off

After further examination, I discovered that I mounted U10, the 60 MHz oscillator, rotated 90 degrees from where it should be. I've been trying to desolder it, but I'm having no luck so far despite the use of braid and flux. I've gotten most of the solder off, but it always seems like that last bit is nearly impossible to remove. Anyone have any tips for this?

And it occurs to me to wonder whether I can check if I've damaged the crystal before I put it back in the right orientation. I'd hate to have to desolder it AGAIN. Suggestions?

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

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---In at_sprint@yahoogroups.com, <anders@...> wrote:

At least some progress ;) As a matter of fact I had initial
problems with my display as well. The reason was that I had
followed the manual saying that "To make removal of the display
easier, it helps to first plug something else in and out of the IC
socket several times, like a dip IC to take some of the tension
out of the socket leafs". I did this too thoroughly and ended up
with the same problem as you describe. After exercising the socket
the opposite way I managed to cope with this.

Good luck!

Anders SM0HPL

On 2013-09-26 07:50, owen@... wrote:

OK, I reflowed the solder on Q3 and now the rig stays powered on - at least, now I hear continuous hiss in the headphones. I still see nothing on the screen, AND the backlight only stays on momentarily (not sure if that is normal).

I
reflowed the leads for X6 and its connections to U9. That didn't help. Then I checked power to U9. I only see 1.45v on pin 2, instead of the specified 3.3v. I see good ground to pin 4 at least. I haven't checked L25 yet - is that where I should go next, given the low voltage to pin 2 of U9?

---In at_sprint@yahoogroups.com, <anders@...> wrote:

I had similar problem. A bad
Q3 was the cause.

Good luck!

Anders SM0HPL

11807. Re: [AT_Sprint] RE: RE: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-28 19:02:36 UTC
From: Dan Babcock
Topic: 11783 Message: 11807

Hi Owen,

My suggestion is to use ChipQuick and isopropyl alchohol. The product is very easy to use and causes minimal stress to the item you are removing. There are a number of YouTube videos available that describe how it works. You can go to the ChipQuick website, Amazon, Ebay, Digi-Key, Mouser and lots of other places to purchase it. http://www.chipquik.com/

73,

Dan N4XWE

From: "owen@..." <owen@...>
To: AT_Sprint@yahoogroups.com
Sent: Saturday, September 28, 2013 11:40 AM
Subject: [AT_Sprint] RE: RE: ATS-4a first power up: immediately shuts off

After further examination, I discovered that I mounted U10, the 60 MHz oscillator, rotated 90 degrees from where it should be. I've been trying to desolder it, but I'm having no luck so far despite the use of braid and flux. I've gotten most of the solder off, but it always seems like that last bit is nearly impossible to remove. Anyone have any tips for this?

And it occurs to me to wonder whether I can check if I've damaged the crystal before I put it back in the right orientation. I'd hate to have to desolder it AGAIN. Suggestions?

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

Given the low voltage at pin 2 of U9, I suspect there is more wrong than just a problem with the display. I did not attempt to loosen up the socket before inserting it (didn't have any DIP ICs on hand). Is there anything I can do with the function buttons that might let me know if everything else was working? Can I get the rig to announce the frequency over the headphones, for example? I don't see anything about that in the manual.

---In at_sprint@yahoogroups.com, <anders@...> wrote:

At least some progress ;) As a matter of fact I had initial problems with my display as well. The reason was that I had followed the manual saying that "To make removal of the display easier, it helps to first plug something else in and out of the IC socket several times, like a dip IC to take some of the tension out of the socket leafs". I did this too thoroughly and ended up with the same problem as you describe. After exercising the socket the opposite way I managed to cope with this.

Good luck!

Anders SM0HPL

On 2013-09-26 07:50, owen@... wrote:
>>

>OK, I reflowed the solder on Q3 and now the rig stays powered on - at least, now I hear continuous hiss in the headphones. I still see nothing on the screen, AND the backlight only stays on momentarily (not sure if that is normal).
>
>
>I reflowed the leads for X6 and its connections to U9. That didn't help. Then I checked power to U9. I only see 1.45v on pin 2, instead of the specified 3.3v. I see good ground to pin 4 at least. I haven't checked L25 yet - is that where I should go next, given the low voltage to pin 2 of U9?
>
>
>
>---In at_sprint@yahoogroups.com, <anders@...> wrote:
>
>
>I had similar problem. A bad Q3 was the cause.
>
>Good luck!
>
>Anders SM0HPL

11808. ats 3

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-29 01:56:34 UTC
From: <rustytrap2003@...>
Topic: 11808 Message: 11808

has any one had very low audio on there ats3 getting to where I cant hear it get 599 reports but low audio on my end thanks jim kc0dd

11809. RE: Re: [AT_Sprint] RE: RE: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-29 03:32:58 UTC
From: <jgaffke@...>
Topic: 11783 Message: 11809

Could just use a heatgun, cover other parts with tinfoil, pluck off with tweezers

But QuickChiip looks interesting, an alloy that melts at 135, mixes with your solder when heated.
KE7ER

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:
My suggestion is to use ChipQuick and isopropyl alchohol.

11810. RE: RE: Re: [AT_Sprint] RE: RE: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-29 18:39:43 UTC
From: <jgaffke@...>
Topic: 11783 Message: 11810

135 F = 57.2 C
You could melt this alloy on a hot car seat

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

Could just use a heatgun, cover other parts with tinfoil, pluck off with tweezers

But QuickChiip looks interesting, an alloy that melts at 135, mixes with your solder when heated.
KE7ER

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:
My suggestion is to use ChipQuick and isopropyl alchohol.

11811. Re: RE: Re: [AT_Sprint] RE: RE: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-29 19:57:46 UTC
From: Lew Paceley
Topic: 11783 Message: 11811

Chipquik works remarkably well for small pitch high pin count SMTs. I reflow the solder/chipquik with a soldering iron @375F and it works well. The only downside is that it's a little spendy. Well worth it to me to not have to repair a lifted trace.

Try the little kit ($16?) with the liquid flux and see what you think.

73,
Lew
K7GO
MT

On Sun, Sep 29, 2013 at 12:39 PM, <jgaffke@...> wrote:

>
>
> 135 F = 57.2 C
>
> You could melt this alloy on a hot car seat
>
>
> ---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:
>
> Could just use a heatgun, cover other parts with tinfoil, pluck off with
> tweezers
>
> But QuickChiip looks interesting, an alloy that melts at 135, mixes with
> your solder when heated.
>
> KE7ER
>
>
> ---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:
> My suggestion is to use ChipQuick and isopropyl alchohol.
>
>
>
>

11812. Re: [AT_Sprint] RE: RE: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-09-30 16:34:14 UTC
From: mpupeza
Topic: 11783 Message: 11812

I use Chip Quik usually, but also have used this method.

I take a single strand of Stainless Steel wire from a piece of bicycle brake cable, probably around 26 gauge.
SS wire doesn't stick to solder. I slide the wire under the chip edge where the pins are on one side, then bring the wire around and grab both ends with pliers. Using a fine tip iron, I heat each pin while slowly holding tension on the wire and pulling gently. As each pin unsolders, the wire slips out pushing the pin up, breaking the solder bond. When one side is done, I do the other. The chip is reusable if you carefully push the pins back down.
It's worked well for me many times and leaves the lands intact (almost always!).
Mike VE3EQP .....>

--- In AT_Sprint@yahoogroups.com, Lew Paceley <lew@...> wrote:
>
> Chipquik works remarkably well for small pitch high pin count SMTs. I
> reflow the solder/chipquik with a soldering iron @375F and it works well.
> The only downside is that it's a little spendy. Well worth it to me to
> not have to repair a lifted trace.
>
> Try the little kit ($16?) with the liquid flux and see what you think.
>
> 73,
> *Lew*
> K7GO
> MT
>
>
> On Sun, Sep 29, 2013 at 12:39 PM, <jgaffke@...> wrote:
>
> >
> >
> > 135 F = 57.2 C
> >
> > You could melt this alloy on a hot car seat
> >
> >
> > ---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:
> >
> > Could just use a heatgun, cover other parts with tinfoil, pluck off with
> > tweezers
> >
> > But QuickChiip looks interesting, an alloy that melts at 135, mixes with
> > your solder when heated.
> >
> > KE7ER

> >
> >
> > ---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:
> > My suggestion is to use ChipQuick and isopropyl alchohol.
> >
> >
> >
> >
>

11813. Re: [AT_Sprint] RE: RE: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-01 16:17:37 UTC
From: Steven Weber
Topic: 11783 Message: 11813

>
> I take a single strand of Stainless Steel wire from a piece of bicycle
> brake cable, probably around 26 gauge.
> SS wire doesn't stick to solder.

That works with the IC's but not with the clock osc, as you can't get a wire under it.

For the clock osc the best way is two soldering irons to heat both pads on one side of the package, while grabbing it with pliers and putting some gentle torque to the package. Get one side to lift a little off the board, then do the same to the other side. Don't worry about getting it too hot, you can't seem to damage them regradless.

Typically I just work one iron back and forth between the two pads on one side of the package until it starts to lift. The main problem is there isn't much for the pliers to grab onto.

Steve KD1JV

11814. Re:: ATS-4a first power up: immediately shuts off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-01 16:29:57 UTC
From: cloud runner
Topic: 11814 Message: 11814

Check out Chip Quik for removing compoents from a board.

73 fred - kt5x

aka ws0ta

----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, October 01, 2013 10:17 AM
Subject: Re: [AT_Sprint] RE: RE: ATS-4a first power up: immediately shuts off

>
> I take a single strand of Stainless Steel wire from a piece of bicycle
> brake cable, probably around 26 gauge.
> SS wire doesn't stick to solder.

That works with the IC's but not with the clock osc, as you can't get a wire under it.

For the clock osc the best way is two soldering irons to heat both pads on one side of the package, while grabbing it with pliers and putting some gentle torque to the package. Get one side to lift a little off the board, then do the same to the other side. Don't worry about getting it too hot, you can't seem to damage them regradless.

Typically I just work one iron back and forth between the two pads on one side of the package until it starts to lift. The main problem is there isn't much for the pliers to grab onto.

Steve KD1JV

11815. Chip Quik

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-01 18:47:13 UTC
From: WA0ITP
Topic: 11815 Message: 11815

It does work well, check out this video
http://www.4sqrp.com/kits/SS40/ss-40pot5kremoval.avi (needs Windows Media Player to open)

Real radios weigh less than a pound.
I love this radio stuff !
72 WA0ITP
www.wa0itp.com
www.4sqrp.com

----- Original Message -----
From: cloud runner
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, October 01, 2013 11:29 AM
Subject: [AT_Sprint] Re:: ATS-4a first power up: immediately shuts off

Check out Chip Quik for removing compoents from a board.

73 fred - kt5x

aka ws0ta

----- Original Message -----
From: Steven Weber
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, October 01, 2013 10:17 AM
Subject: Re: [AT_Sprint] RE: RE: ATS-4a first power up: immediately shuts off

>
> I take a single strand of Stainless Steel wire from a piece of bicycle
> brake cable, probably around 26 gauge.
> SS wire doesn't stick to solder.

That works with the IC's but not with the clock osc, as you can't get a wire
under it.

For the clock osc the best way is two soldering irons to heat both pads on
one side of the package, while grabbing it with pliers and putting some
gentle torque to the package. Get one side to lift a little off the board,
then do the same to the other side. Don't worry about getting it too hot,
you can't seem to damage them regradless.

Typically I just work one iron back and forth between the two pads on one
side of the package until it starts to lift. The main problem is there isn't
much for the pliers to grab onto.

Steve KD1JV

11816. NAQCC Sprint Tuesday night!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-02 18:28:52 UTC
From: NAQCC
Topic: 2905 Message: 11816

NAQCC Sprint Tuesday night!

Our October Sprint is this coming Tuesday evening local time (October 8, EDT - 8:30-10:30PM, CDT - 7:30-9:30PM, MDT - 6:30-8:30PM, PDT - 5:30-7:30PM), which translates as Wednesday October 9, 2013 0030-0230Z in all cases.

NOTE: For this, our Ninth Anniversary sprint, we are repeating what we did for our 100th sprint in February. This time we have NINE extra special prizes which will be awarded to nine different participants in a random drawing. The drawing, as in February, will take place in a 'semi-live' web cast. That will be on Columbus Day, October 14 around 2300Z. The web cast can be accessed here (http://naqcc.info/prize_drawing_9th_anniv.html). Details of the prizes are being kept a secret until the web cast.

I will refer you to the proper URL:

http://naqcc.info/sprint201310.html

There you will find all the details as to time, frequencies and other important information.

This is a monthly event that caters to the CW veteran, the CW newcomer, straight key and bug fans. All are welcome to participate (this includes QRO); but you must use QRP power levels to compete for awards.

If you've been hesitant to join in our sprints because you hear other sprints running at breakneck speeds, have no fear. Our sprints are geared to the newcomer to CW and/or contesting. Virtually everyone including the many veteran contesters who regularly enter our sprints will slow down to YOUR speed to help you make your contacts.

The NAQCC Ninth Anniversary runs from 0000Z October 6 through 2400Z October 12, a full seven days as usual. We now have 40 operators to man our 10 calls (N1A through N0A). Special QSL cards and certificates are available for working the anniversary special event stations. A N#A spotter page will be available at (http://naqcc.info/spot_schedule.php) to see where and when the N#A stations will be operating. Full information about the NAQCC 9th anniversary celebration can be found at: http://naqcc.info/main_n3a.html

If you are not already a member of NAQCC... membership is FREE! Sign up on the NAQCC website today (http://naqcc.info/) and receive a handsome certificate, with your membership number on it, which is good for life.

Come join us and have a real good time!

72/73 de Dave VA3RJ
NAQCC #0004

for NAQCC
http://naqcc.info/

11817. Re: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-02 19:39:42 UTC
From: Heilman, William Clay
Topic: 11584 Message: 11817

Steve,
Do you have an idea when you will be releasing this new kit?

73 -de ke7ngo Clayton
WX MAA8108
NAQCC 5902
+1 (602) 300-3068
MST (-7)

dit dit

Compone Accomoda Supera
"It's only a mistake if you don't learn from it."

11818. ATS-4a new build - screen is blank

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-03 05:27:07 UTC
From: Owen B. Mehegan
Topic: 11818 Message: 11818

I thought I would start a new thread, since I have made progress since my initial posts about not getting the rig to stay turned on. I fixed that but still got nothing on the screen. Backlight comes on and I hear hiss in the headphones, but that's it. I don't think the issue is just with the LCD itself, because I can't get the rig to turn off by holding down the FN button.

Last week I discovered that the 60 MHz oscillator was mounted wrong, rotated 90 degrees from where it belonged. I figured this out after leaving the rig plugged in for a few minutes while checking voltages at various points, and realizing that U10 (the crystal) and U9 (the MPU) were pretty hot. Thanks to everyone's tips about Chip Quik, tonight I managed to re-orient the crystal. Now when I power up the rig I see 3.3v on pin 2 of U9, and also on a few pins of the LCD for what it's worth. The connections for X6, the 32.768khz crystal, back to U9 are good. I'm a little stumped for what to look at now.

My other early problem turned out to be an old battery with too little voltage to drive the rig. When I first swapped it for a new one, I heard a staccato buzz in the headphones when the rig was powered on. I suspect this was related to U10 being installed wrong. But after being powered for awhile, getting hot, etc., that noise went away. This was before I corrected U10's placement. So I do wonder if something got fried.

I'd appreciate any further suggestions!
--
owen@... (Owen B. Mehegan)
'Something is rotten in the state of Denmark.'
--William Shakespeare

11819. RE: [AT_Sprint] ATS-4a new build - screen is blank

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-03 14:34:30 UTC
From: Dale Putnam
Topic: 11818 Message: 11819

Hi Owen, A very close look at U7 and U9 pins, the connections to the display, and the row of caps and resistors just above U7... may revealsomething. You're getting close, and congrats on finding the reversed osc too.

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: owen@...
Date: Wed, 2 Oct 2013 22:27:07 -0700
Subject: [AT_Sprint] ATS-4a new build - screen is blank

I thought I would start a new thread, since I have made progress since my initial posts about not getting the rig to stay turned on. I fixed that but still got nothing on the screen. Backlight comes on and I hear hiss in the headphones, but that's it. I don't think the issue is just with the LCD itself, because I can't get the rig to turn off by holding down the FN button.

Last week I discovered that the 60 MHz oscillator was mounted wrong, rotated 90 degrees from where it belonged. I figured this out after leaving the rig plugged in for a few minutes while checking voltages at various points, and realizing that U10 (the crystal) and U9 (the MPU) were pretty hot. Thanks to everyone's tips about Chip Quik, tonight I managed to re-orient the crystal. Now when I power up the rig I see 3.3v on pin 2 of U9, and also on a few pins of the LCD for what it's worth. The connections for X6, the 32.768khz crystal, back to U9 are good. I'm a little stumped for what to look at now.
My other early problem turned out to be an old battery with too little voltage to drive the rig. When I first swapped it for a new one, I heard a staccato buzz in the headphones when the rig was powered on. I suspect this was related to U10 being installed wrong. But after being powered for awhile, getting hot, etc., that noise went away. This was before I corrected U10's placement. So I do wonder if something got fried.
I'd appreciate any further suggestions!
--

owen@nerdnetworks.org (Owen B. Mehegan)

'Something is rotten in the state of Denmark.'

--William Shakespeare

11820. Re: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-03 15:57:31 UTC
From: Steven Weber
Topic: 11584 Message: 11820

Very soon now. I've started bagging parts and the manual is finished, but I still have a bug or two to clean up in the firmware. I want to have everything finished and ready to go before I start notifications and collecting funds as that in it's self is time consuming. I think by Monday...

Steve
Steve,

Do you have an idea when you will be releasing this new kit?

11821. 160 antennas

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 01:08:18 UTC
From: Paul Womble
Topic: 11821 Message: 11821

Hopefully we will have the new 160/80 kits on the air soon. Until then what antenna is everyone using or planning to use for 160m?

I am putting together a top loaded "no excuses" vertical following K6MM's design. More info is here: http://www.k6mm.com/pages/ant-v160.html

I plan to use my existing 6BTV radial system with this antenna. We will have to plan some type of 160 sprintthis winter.

73
Paul K4FB

11822. Re: [AT_Sprint] 160 antennas

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 02:04:46 UTC
From: Heilman, William Clay
Topic: 11821 Message: 11822

I was looking at this just yesterday.

Clayton Heilman

The world is run by those who show up.

On Oct 3, 2013, at 18:08, "Paul Womble" <pwomble@tampabay.rr.com<mailto:pwomble@...>> wrote:

Hopefully we will have the new 160/80 kits on the air soon. Until then what antenna is everyone using or planning to use for 160m?

I am putting together a top loaded "no excuses" vertical following K6MM's design. More info is here: http://www.k6mm.com/pages/ant-v160.html

I plan to use my existing 6BTV radial system with this antenna. We will have to plan some type of 160 sprint this winter.

73
Paul K4FB

11823. Re: 160 antennas

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 02:21:20 UTC
From: k1thp
Topic: 11821 Message: 11823

Paul,
I will be using either a Butternut vertical or a 135 Foot OCF dipole on 80. The 160 antenna will be a quarter wave sloper wire (actually 112 feet after trimming) fed from the top of my 40 foot tower. All three of these antennas work very well for QRP DX.
73,
Dave K1THP

--- In AT_Sprint@yahoogroups.com, Paul Womble <pwomble@...> wrote:
>
> Hopefully we will have the new 160/80 kits on the air soon. Until then
> what antenna is everyone using or planning to use for 160m?
>
> I am putting together a top loaded "no excuses" vertical following
> K6MM's design. More info is here: http://www.k6mm.com/pages/ant-v160.html
>
> I plan to use my existing 6BTV radial system with this antenna. We will
> have to plan some type of 160 sprintthis winter.
>
> 73
> Paul K4FB
>

11824. Re: [AT_Sprint] 160 antennas

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 03:29:55 UTC
From: Hank Greeb
Topic: 11821 Message: 11824

I plod along with my venerable Drake TR-5, Heathkit HM-9 wattmeter/SWR Bridge, LDG Z-100 tuner, and an inverted "V" cloud warmer to which I add "antlers' at the end as capacity hats so I can tune the SWR to 50 ohms with the Z-100. I MAY, built a vertical with some radials, but probably won't get a "round tuit" because 160 isn't one of my favorite bands.

I'm not so sure a linearly loaded wire vertical on 25' chunk of fiberglass pipe could be considered "no excuses" - but I'm sure it will be better than a dummy load buried 6' under ground. Perhaps a better vertical would be as high of a support as one thinks he/she can put together - like a 31' jackite pole on top of 3, 4, or more (4 foot) sections of military surplus fiberglass antenna supports, to make a vertical of 40 to 50 feet tall, with linear loading around the mil-surplus part of the system.

Actually, anything in the clear, as high as practical, should do reasonably well.

I'll "probably" get on the ARRL 160 (2200Z, Dec 6 to 1600Z, Dec 8) and the CQ 160 (2200Z, Jan 24 to 2159Z, Jan 26) contests, just for the fish (halibut). Last few years I've been with a multi op effort at a "super station" (1.5 KW out, quarter wave vertical - full size for transmit antenna, and a series of 1000' beverage antennae for receiving) but the owner of the station says his work sked is getting crazy and he can't host such operations.

As for sprints, keep an eye out for the Northern California Contest Club Sprints. I haven't checked, but they typically change to fit the upcoming weekend contest. And, if memory serveth correctly, and early onset of Alzheimer's doesn't catch up with me, NAQCC runs a 160 meter test, in 2013 it was Thu Jan 24 8:30-10:30P EST or Jan 25 0130-0330Z. That means that they "probably" will have a similar 160 meter event on January 23 (local time) 2014. It seems to me to be best NOT to have a specialized "one-off" contest for the KD1JV 80/160 rig, but dig in to the melee of a "real" contest.

That's my 0.5 cents worth.

72/73 de n8xx Hg
QRP >99.44% of the time

On 10/3/2013 9:08 PM, Paul Womble wrote:
>
> Hopefully we will have the new 160/80 kits on the air soon. Until then
> what antenna is everyone using or planning to use for 160m?
>
> I am putting together a top loaded "no excuses" vertical following

> K6MM's design. More info is here:
> http://www.k6mm.com/pages/ant-v160.html
>
> I plan to use my existing 6BTV radial system with this antenna. We
> will have to plan some type of 160 sprintthis winter.
>
> 73
> Paul K4FB
>
>
>
>
>

11825. FW: [QRP-L] ATS 3B Kit for sale $175 shipped CONUS

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 14:36:05 UTC
From: Dale Putnam
Topic: 11825 Message: 11825

reposted from QRP-L

Have a great day,

--... ...--
Dale - WC7S in Wy

> Date: Fri, 4 Oct 2013 08:12:24 -0500
> From: kd5kxf@...
> To: qrp-l@...
> Subject: [QRP-L] ATS 3B Kit for sale $175 shipped CONUS
>
> I have an unbuilt, sealed ATS3b kit for sale. Paypal is okay. I will be
> at Belton, TX tomorrow so if you would like to meet and pickup and person I
> can do that too. I built one of these already and they are great rigs...
> of course if you even opened this email you know that already.
>
> Mike KD5KXF
> _____
> QRP-L mailing list
> Home: http://mailman.qth.net/mailman/listinfo/qrp-l
> Help: http://mailman.qth.net/mmfaq.htm
> Post: mailto:QRP-L@mailman.qth.net
>
> This list hosted by: http://www.qsl.net
> Please help support this email list: http://www.qsl.net/donate.html

11826. FW: [QRP-L] ATS 3B Kit for sale $175 shipped CONUS

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 15:06:27 UTC
From: Dale Putnam
Topic: 11825 Message: 11826

reposted

Have a great day,

--... ...--
Dale - WC7S in Wy

> Date: Fri, 4 Oct 2013 10:02:52 -0500
> From: kd5kxf@...
> To: qrp-l@mailman.qth.net
> Subject: Re: [QRP-L] ATS 3B Kit for sale $175 shipped CONUS
>
> SOLD, pending payment. Thanks
>
>
> On Fri, Oct 4, 2013 at 8:12 AM, Mike Malone <kd5kxf@...> wrote:
>
> > I have an unbuilt, sealed ATS3b kit for sale. Paypal is okay. I will be
> > at Belton, TX tomorrow so if you would like to meet and pickup and person I
> > can do that too. I built one of these already and they are great rigs...
> > of course if you even opened this email you know that already.
> >
> > Mike KD5KXF
> >
> _____
> QRP-L mailing list
> Home: http://mailman.qth.net/mailman/listinfo/qrp-l
> Help: http://mailman.qth.net/mmfaq.htm
> Post: mailto:QRP-L@...
>
> This list hosted by: http://www.qsl.net
> Please help support this email list: http://www.qsl.net/donate.html

11827. Some track record!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 15:57:27 UTC
From: Håkan Olsson
Topic: 11827 Message: 11827

Just to show to you all that the ATS-4b is a very nice and reliable rig I just want to mention the following track record...

I have been active in the Swedish SMFF program during this and last year. I have always travelled by bike, as I do not have car, although for my longer trips down south of Sweden me and my bike have gone by train. During this time I have activated 306 different SMFF-areas. Some of them more than once making it next to 400 times I have been sitting in the bush transmitting with my little rig. Some times in very nice and warm weather, some times wet and cold and some times in poring rain. My trusty ATS-4b have never failed me once!

In total I have made some 7500 qso:s. All on 40 and 80 meters. The antenna has been an End Fed Half-Wave Dipole for 40 meter with an added 40-meter trap and an additional 11 meters of wire to make it work on 80 meters. All this has been supported at 12 meters with a 15 meter glas fiber pole that I bought from DX-Wire in Germany. To the antenna I have added a Hendricks SLT+ tuner. With this setup I have been able to work most of Sweden up to Abisko in the very north and down through Poland, Netherlands, France, Britain and Germany.

I say this only to show that if you put it together correctly this little rig will serve you with distinction for many years, through wet and cold and without any problems!

I can only add that I would hope that Steve will release another batch of this rig. You see, on this side of the Big Pond 80, 40 and 30 meters are the band of choise both for SMFF, WFF and SOTA operations. It may not be on the western side of the Big Pond, but on this side it is!

http://hem.bredband.net/b101180/In%20the%20field.html

73 do you all from:

H?kan / SM6EQO

11828. Re: [AT_Sprint] Some track record!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 17:11:30 UTC
From: Hank Greeb
Topic: 11827 Message: 11828

Nice writeup, but please explain what SMFF and WFF means to us who know nothing of these acronyms.

72/73 de n8xx Hg
QRP (Which is a misuse of the International Q signal which means "please reduce power") >99.44% of the time

On 10/4/2013 11:57 AM, H?kan Olsson wrote:
> SMFF, WFF

11829. Re: [AT_Sprint] Some track record!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 17:27:49 UTC
From: Håkan Olsson
Topic: 11827 Message: 11829

N8XX

Ahhh, SMFF is a very nice thing! The purpose is to work radio from National Parks, Nature Reserves and Nature Preservation Areas and so called "Natura 2000" areas. In Sweden there are many. Almost 6000 I think. The thing is that you get out in the clean fresh air and come to visit places you would not have visited otherwise. In short; a wonderful way to learn to know your country. Basically it is a competition. You could collect activated areas, worked areas or just points. If you are good you will get a diploma, recognition and eternal glory!

How you want to view it; as a good pretence to work radio or a good pretence to get out in nature and get some fresh air, is up to you! :-)

You can read about it here: http://smff.sk6aw.net/

WFF is the same thing but on the European scale. The rules are a bit stricter, but basically the same.

You can read about it here: http://www.wff44.org/

11830. RE: ATS-4a new build - screen is blank

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 18:00:04 UTC
From: <owen@...>
Topic: 11818 Message: 11830

Still no luck. Here's what I tried last night:

I reflowed the solder on the resistors and capacitors above U7.
I checked connections from U9 to the display pins. Looks like this should be pins 18-15. I see 3.3v on 18, 16, 15, nothing on 17. But I see continuity from pin 17 to the display.
I was less sure of what to look at on U7. I have 1.7v on pin 3 and 3.3v on pin 4 and 5. I have 3.3v on pin 14 and 15, but nothing on pin 13. Which makes sense, it corresponds to pin 17 on U9.

Thoughts?

---In at_sprint@yahoogroups.com, <daleputnam@...> wrote:

Hi Owen,
A very close look at U7 and U9 pins, the connections to the display, and the row of caps and resistors just above U7... may reveal
something. You're getting close, and congrats on finding the reversed osc too.

Have a great day,

--... ...-- Dale - WC7S in Wy

11831. Re: [AT_Sprint] RE: ATS-4a new build - screen is blank

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 18:41:54 UTC
From: Steven Weber
Topic: 11818 Message: 11831

Yes, send to me to straighten out before it becomes a basket case.
I am really good at finding those pesty bad solder connections and other assembly errors.
Steve KD1JV
Still no luck. Here's what I tried last night:

I reflowed the solder on the resistors and capacitors above U7.

I checked connections from U9 to the display pins. Looks like this should be pins 18-15. I see 3.3v on 18, 16, 15, nothing on 17. But I see continuity from pin 17 to the display.

I was less sure of what to look at on U7. I have 1.7v on pin 3 and 3.3v on pin 4 and 5. I have 3.3v on pin 14 and 15, but nothing on pin 13. Which makes sense, it corresponds to pin 17 on U9.

Thoughts?

---In at_sprint@yahoogroups.com, <daleputnam@...> wrote:

Hi Owen,
A very close look at U7 and U9 pins, the connections to the display, and the row of caps and resistors just above U7... may reveal
something. You're getting close, and congrats on finding the reversed osc too.

Have a great day,

--... ...-- Dale - WC7S in Wy

11832. RE: ATS-4a new build - screen is blank

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 20:58:08 UTC
From: <owen@...>
Topic: 11818 Message: 11832

Thanks for the offer Steve! I do have access to a scope - if you can suggest anything for me to check with that (32khz osc for U9?) I can do it before I give up.

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

□
Yes, send to me to straighten out before it becomes a basket case.

I am really good at finding those pesty bad solder connections and other assembly errors.

Steve KD1JV

11833. Re: [AT_Sprint] Some track record!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-04 23:07:50 UTC
From: Peter Martin
Topic: 11827 Message: 11833

Håkan,
that is very impressive and just shows what a great rig the ATS4 is.

I've notched up approx 2500 QSOs mainly operating SOTA.
I don't use 80 metres and have had lots of contacts on the higher bands, 17 and 15 metres including several summit to summit contacts.

I know if Steve did another run of these rigs they would sell like hot cakes!

Thanks for the link to your blog, it's nice to see another ATS4 out in the field and on a bike.

I also do some bike operations when I'm not hiking with the rig.

My blog is at http://g4isj.blogspot.co.uk/
I'm trying to catch up with the words to go with the photos :-)

Too much to do so little time!

72
Pete

On Fri, Oct 4, 2013 at 4:57 PM, Håkan Olsson <sm6eqo@...> wrote:

>
>
> Just to show to you all that the ATS-4b is a very nice and reliable rig I
> just want to mention the following track record...
>
> I have been active in the Swedish SMFF program during this and last year.
> I have always travelled by bike, as I do not have car, although for my
> longer trips down south of Sweden me and my bike have gone by train. During
> this time I have activated 306 different SMFF-areas. Some of them more than
> once making it next to 400 times I have been sitting in the bush
> transmitting with my little rig. Some times in very nice and warm weather,
> some times wet and cold and some times in poring rain. My trusty ATS-4b
> have never failed me once!
>
> In total I have made some 7500 qso:s. All on 40 and 80 meters. The antenna
> has been an End Fed Half-Wave Dipole for 40 meter with an added 40-meter
> trap and an additional 11 meters of wire to make it work on 80 meters. All
> this has been supported at 12 meters with a 15 meter glas fiber pole that I
> bought from DX-Wire in Germany. To the antenna I have added a Hendricks
> SLT+ tuner. With this setup I have been able to work most of Sweden up to
> Abisko in the very north and down through Poland, Netherlands, France,
> Britain and Germany.

>
> I say this only to show that if you put it together correctly this little
> rig will serve you with distinction for many years, through wet and cold
> and without any problems!
>
> I can only add that I would hope that Steve will release another batch of
> this rig. You see, on this side of the Big Pond 80, 40 and 30 meters are
> the band of choise both for SMFF, WFF and SOTA operations. It may not be on
> the western side of the Big Pond, but on this side it is!
>
> http://hem.bredband.net/b101180/In%20the%20field.html
>
> 73 do you all from:
>
> Håkan / SM6EQO
>
>
>
>

11834. Re: [AT_Sprint] RE: ATS-4a new build - screen is blank

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-06 15:57:57 UTC
From: Steven Weber
Topic: 11818 Message: 11834

Thanks for the offer Steve! I do have access to a scope - if you can suggest anything for me to check with that (32khz osc for U9?) I can do it before I give up.

I really can't expand any farther on troubleshooting that what is already written in the manual. As I keep repeating, it's all in the soldering. You need to idenitfy where the bad connections are since using the "shotgun" method of resoldering everything often causes more problems then it solves. Too much of that and you can damage the plating on the ends of chip resistors and caps or even cause a cap to crack.

The other issue is the more you fiddle with it, the greater the chances of breaking something else. Although it is disapointing not to be able to get it to work, sending it to me does save us both a lot of time and effort running around in circles and not getting anywhere.

Steve KD1JV

11835. Re: ATS-4a new build - screen is blank

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-07 21:14:05 UTC
From: Michael Califf
Topic: 11818 Message: 11835

I have found that sometimes I get a "warp" in the board the screen is mounted on,and a slight adjustment of the screws holding it to the case will bring the illumination back on.Sometimes I guess it just shorts out a bit and relieving the tension helps to turn things back on.

Mecsr MikeSr AB7OC

Michael E. Califf,Sr.

11836. Att: Dale Putnam

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-08 14:53:58 UTC
From: Bill L
Topic: 11836 Message: 11836

Have you changed email address? Please drop me a note to re-establish contact.

Thanks Dale.
BILL-W7WEL

11837. MBDC (160/80M rig) manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-08 16:50:36 UTC
From: <steve.kd1jv@...>
Topic: 11837 Message: 11837

Just up load the 160/80 meter rig manual to a folder labeled "MBDC" in the files section.

Steve KD1JV

11838. RE: [AT_Sprint] Att: Dale Putnam

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-08 17:32:16 UTC
From: Dale Putnam
Topic: 11836 Message: 11838

Hey Bill, Did I forget something?Or miss something?

Have a great day,

--... ...--
Dale - WC7S in Wy

To: at_sprint@yahoogroups.com
From: wlinn.linn@...
Date: Tue, 8 Oct 2013 07:53:58 -0700
Subject: [AT_Sprint] Att: Dale Putnam

Have you changed email address? Please drop me a note to re-establish contact.

Thanks Dale.

BILL-W7WEL

11839. Rotary encoder for ATS transceiver series - also running on MBDC ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-09 21:16:59 UTC
From: Klaus
Topic: 11839 Message: 11839

Is it possible to connect the "Rotary encoder for ATS transceiver series" also to the MBDC ?

Klaus DL1BJA

11840. Re: [AT_Sprint] Rotary encoder for ATS transceiver series - also running on MBDC ?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-10 12:36:18 UTC
From: Steven Weber
Topic: 11839 Message: 11840

> Is it possible to connect the "Rotary encoder for ATS transceiver series"
> also to the MBDC ?
>
> Klaus DL1BJA
>

The MBDC already uses a rotary encoder which is supplied.

Steve KD1JV

11841. RE: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-10 17:16:46 UTC
From: <drumgrinalds@...>
Topic: 11584 Message: 11841

HI Steve -

I would like to reserve one of these.

Tu. 73,

Drum
K1RDG

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

Very soon now. I've started bagging parts and the manual is finished, but I still have a bug or two to clean up in the firmware. I want to have everything finished and ready to go before I start notifications and collecting funds as that in it's self is time consuming. I think by Monday...

Steve
Steve,
Do you have an idea when you will be releasing this new kit?

11842. ARE YOU ON THIS LIST? 160/80M kit reservations

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-10 18:56:30 UTC
From: <steve.kd1jv@...>
Topic: 11842 Message: 11842

I am now accepting payment for the MBDC 160/80M board kit, which will start to ship as soon as Monday. Unfortunetly, many of you responded to the list and not to me directly, so I can't notify you directly. I supose I could spend a few hours tracking down everyones email address, but I'd rather not.

So, if you indicated you wanted one of these kits and have not yet received an email from me, check to see if your call is on this list. Then send me an email direct (steve.kd1jv@gmail.com mailto:steve.kd1jv@gmail.com) to confirm you still want one and to get the final price and order info.

DX orders: I haven't gotten to you yet. DX orders take extra time and effort (and I haven't check the shipping costs yet) so I'll get to you when my domestic orders are done.

Anyone late to the party will have to wait until I find out if there are any left..there is a good possibility there will be a few...

Thanks, Steve

WC7S, W9YA, W7WM, AC0BQ, K9MR, W2TAG, KD4SGN, N6OSB, KF5NWC
N3CAZ, K7RE, WI1P, KD0TNH, WU4B, K1USR, K1THP, N0HJ, W5REJ, WD4ON

I think thats all of them and hopefully read my handwritting correctly for all the calls, so if it's close, it might be yours...

11843. 160/80M kit reservations - F5VJD

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-10 19:51:36 UTC
From: Richard F5VJD
Topic: 11842 Message: 11843

Hello Steve

I'm a DX order but I wanted to let you know that I shall be away from home from the 17th to 31st October and although my wife will still be here, she won't be picking up my mails, let alone buying radios for me!

However, if you also send your notification message to my @gmail address (see above) as well as my regular address, there's a good chance that I will be able to pick it up and get my payment to you - if that fails, please hang on to my kit until after 10/31 as I definitely want it and I won't let you down.

Thanks a lot for coping with problem people like me...

73

Richard F5VJD

On 10/10/2013 20:56, steve.kd1jv@... wrote:
>
> I am now accepting payment for the MBDC 160/80M board kit, which will
> start to shipas soon as Monday. Unfortunetly, many of you responded to
> the list and not to me directly, so I can't notify you directly. I
> supose I could spend a few hours tracking down everyones email
> address, but I'd rather not.
>
> So, if you indicated you wanted one of these kits and have not yet
> received an email from me, check to see if your call is on this list.
> Then send me an email direct (steve.kd1jv@...
> <mailto:steve.kd1jv@...>) to confirm you still want one and to
> get the final price and order info.
>
> DX orders: I haven't gotten to you yet. DX orders take extra time
> and effort (and I haven't check the shipping costs yet) so I'll get to
> you when my domestic orders are done.
>
> Anyone late to the party will have to wait until I find out if there
> are any left..there is a good possibility there will be a few...
>
> Thanks, Steve
>
> WC7S, W9YA, W7WM, AC0BQ, K9MR, W2TAG, KD4SGN, N6OSB, KF5NWC
>
> N3CAZ, K7RE, WI1P, KD0TNH, WU4B, K1USR, K1THP, N0HJ, W5REJ, WD4ON
>
> I think thats all of them and hopefully read my handwritting correctly

> for all the calls, so if it's close, it might be yours...
>
>

11844. Re: [AT_Sprint] ARE YOU ON THIS LIST? 160/80M kit reservations

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-11 00:01:38 UTC
From: John Scherer
Topic: 11842 Message: 11844

I would like one,

John Scherer, N0CTL

Sent from my iPhone

> On Oct 10, 2013, at 11:56 AM, <steve.kd1jv@...> wrote:
>
> I am now accepting payment for the MBDC 160/80M board kit, which will start to ship as soon as Monday. Unfortunetly, many of you responded to the list and not to me directly, so I can't notify you directly. I supose I could spend a few hours tracking down everyones email address, but I'd rather not.
>
>
>
> So, if you indicated you wanted one of these kits and have not yet received an email from me, check to see if your call is on this list. Then send me an email direct (steve.kd1jv@...) to confirm you still want one and to get the final price and order info.
>
>
>
> DX orders: I haven't gotten to you yet. DX orders take extra time and effort (and I haven't check the shipping costs yet) so I'll get to you when my domestic orders are done.
>
>
>
> Anyone late to the party will have to wait until I find out if there are any left..there is a good possibility there will be a few...
>
>
>
> Thanks, Steve
>
>
>
> WC7S, W9YA, W7WM, AC0BQ, K9MR, W2TAG, KD4SGN, N6OSB, KF5NWC
>
> N3CAZ, K7RE, WI1P, KD0TNH, WU4B, K1USR, K1THP, N0HJ, W5REJ, WD4ON
>
>
>
> I think thats all of them and hopefully read my handwritting correctly for all the calls, so if it's close, it might be yours...
>
>

11845. RE: ARE YOU ON THIS LIST? 160/80M kit reservations

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-11 07:05:23 UTC
From: <xv4y@...>
Topic: 11842 Message: 11845

Hi Steve,

Well, I think that's due to the "Neo" interface of Yahoo, but I dont' see which list you're talking about.
Also, I would like to write to you directly but your address is hidden and when hitting the "Reply" button on the website I cannot select the sender's address...

To make it short :
- YES I would like one MDBC kit
- I know I am DX and I will pay when you told me to do so
- I will send you by e-mail a letter to join to the package for the vietnamese customs

Thanks.
73,
Yan - XV4Y.

---In at_sprint@yahoogroups.com, <jrsphoto@...> wrote:

I would like one,

John Scherer, N0CTL

Sent from my iPhone

On Oct 10, 2013, at 11:56 AM, <steve.kd1jv@... mailto:steve.kd1jv@...> wrote:

I am now accepting payment for the MBDC 160/80M board kit, which will start to ship as soon as Monday. Unfortunetly, many of you responded to the list and not to me directly, so I can't notify you directly. I supose I could spend a few hours tracking down everyones email address, but I'd rather not.

So, if you indicated you wanted one of these kits and have not yet received an email from me, check to see if your call is on this list. Then send me an email direct (steve.kd1jv@... mailto:steve.kd1jv@...) to confirm you still want one and to get the final price and order info.

DX orders: I haven't gotten to you yet. DX orders take extra time and effort (and I haven't check the shipping costs yet) so I'll get to you when my domestic orders are done.

Anyone late to the party will have to wait until I find out if there are any left..there is a good possibility there will be a few...

Thanks, Steve

WC7S, W9YA, W7WM, AC0BQ, K9MR, W2TAG, KD4SGN, N6OSB, KF5NWC
N3CAZ, K7RE, WI1P, KD0TNH, WU4B, K1USR, K1THP, N0HJ, W5REJ, WD4ON

I think thats all of them and hopefully read my handwritting correctly for all the calls, so if it's close, it might be yours...

11846. Re: [AT_Sprint] ARE YOU ON THIS LIST? 160/80M kit reservations

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-11 10:07:16 UTC
From: w9ya
Topic: 11842 Message: 11846

Hey Steve and the group;

Sadly, although I emailed you directly on August 28th and then again on Sept. 24th (and once again yesterday afternoon) to confirm my wanting to complete the purchase....you apparently did not get any of these emails as I did not hear back from you and I am on the list below.

Alas I am trying a fourth time in the same email to the group AND directly to you. IF you only get this email via the group there seems to be some email-snafu beyond my control.

In any event: PLEASE email me directly at w9ya@... to confirm so I can pay you !!

TIA es vy 72 om de;

- Bob, w9ya

On Thu, Oct 10, 2013 at 12:56 PM, <steve.kd1jv@...> wrote:

> **
>
>
> I am now accepting payment for the MBDC 160/80M board kit, which will
> start to ship as soon as Monday. Unfortunetly, many of you responded to
> the list and not to me directly, so I can't notify you directly. I supose I
> could spend a few hours tracking down everyones email address, but I'd
> rather not.
>
>
>
> So, if you indicated you wanted one of these kits and have not yet
> received an email from me, check to see if your call is on this list. Then
> send me an email direct (steve.kd1jv@...) to confirm you still want
> one and to get the final price and order info.
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>
> DX orders: I haven't gotten to you yet. DX orders take extra time
> and effort (and I haven't check the shipping costs yet) so I'll get to you
> when my domestic orders are done.
>
>
>
> Anyone late to the party will have to wait until I find out if there are
> any left..there is a good possibility there will be a few...
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>
>
> Thanks, Steve
>
>
>
> WC7S, W9YA, W7WM, AC0BQ, K9MR, W2TAG, KD4SGN, N6OSB, KF5NWC
>
> N3CAZ, K7RE, WI1P, KD0TNH, WU4B, K1USR, K1THP, N0HJ, W5REJ, WD4ON
>
>
>
> I think thats all of them and hopefully read my handwritting correctly for
> all the calls, so if it's close, it might be yours...
>
>
>

11847. Re: [AT_Sprint] ARE YOU ON THIS LIST? 160/80M kit reservations

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-11 20:35:13 UTC
From: Hank Greeb
Topic: 11842 Message: 11847

Hi, Steve,

I sent a check in today's mail, which I promised in a message yesterday. It should arrive within the month, or less, given or take.

This message is going direct to you, and to the reflector. I'm not on the list below, but I'm sure you received my earlier message since it didn't bounce.

I'm VERY happy that you're doing such a service to the Low Power Ops.

72/73 de n8xx Hg
QRP >99.44% of the time

On 10/10/2013 2:56 PM, steve.kd1jv@... wrote:
>
> I am now accepting payment for the MBDC 160/80M board kit, which will
> start to shipas soon as Monday. Unfortunetly, many of you responded to
> the list and not to me directly, so I can't notify you directly. I
> supose I could spend a few hours tracking down everyones email
> address, but I'd rather not.
>
> So, if you indicated you wanted one of these kits and have not yet
> received an email from me, check to see if your call is on this list.
> Then send me an email direct (steve.kd1jv@...
> <mailto:steve.kd1jv@...>) to confirm you still want one and to
> get the final price and order info.
>
> DX orders: I haven't gotten to you yet. DX orders take extra time
> and effort (and I haven't check the shipping costs yet) so I'll get to
> you when my domestic orders are done.
>
> Anyone late to the party will have to wait until I find out if there
> are any left..there is a good possibility there will be a few..
>
> Thanks, Steve
>
> WC7S, W9YA, W7WM, AC0BQ, K9MR, W2TAG, KD4SGN, N6OSB, KF5NWC N3CAZ,
> K7RE, WI1P, KD0TNH, WU4B, K1USR, K1THP, N0HJ, W5REJ, WD4ON
>
> I think thats all of them and hopefully read my handwritting correctly
> for all the calls, so if it's close, it might be yours...

11848. RE: [AT_Sprint] ARE YOU ON THIS LIST? 160/80M kit reservations

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 01:01:14 UTC
From: Dale Putnam
Topic: 11842 Message: 11848

HI Steve, I answered in a direct email, but understanding that email sometimes follows the way of the pony express... and gets waylaid...I wanted to express my desire to obtain the kit again. Thank you,

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Thu, 10 Oct 2013 11:56:30 -0700
Subject: [AT_Sprint] ARE YOU ON THIS LIST? 160/80M kit reservations

I am now accepting payment for the MBDC 160/80M board kit, which will start to ship as soon as Monday. Unfortunetly, many of you responded to the list and not to me directly, so I can't notify you directly. I supose I could spend a few hours tracking down everyones email address, but I'd rather not.

So, if you indicated you wanted one of these kits and have not yet received an email from me, check to see if your call is on this list. Then send me an email direct (steve.kd1jv@gmail.com) to confirm you still want one and to get the final price and order info.

DX orders: I haven't gotten to you yet. DX orders take extra time and effort (and I haven't check the shipping costs yet) so I'll get to you when my domestic orders are done.

Anyone late to the party will have to wait until I find out if there are any left..there is a good possibility there will be a few...

Thanks, Steve

WC7S, W9YA, W7WM, AC0BQ, K9MR, W2TAG, KD4SGN, N6OSB, KF5NWC

N3CAZ, K7RE, WI1P, KD0TNH, WU4B, K1USR, K1THP, N0HJ, W5REJ, WD4ON

I think thats all of them and hopefully read my handwritting correctly for all the calls, so if it's close, it might be yours...

11849. Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 04:16:37 UTC
From: <n8xx@...>
Topic: 11849 Message: 11849

I'm a dunce when it comes to getting parts. I read in the manual for the 160/80 meter rig that we need an AD9850 DDS module and a 2 x 16 display module. There was some chatter about the best place to purchase the AD9850, but I lost the info in my mailer, and it's impossible to search the "neo" form of the yahoo group.

Does anyone have a cache of these items who would be willing to part with one each for a nominal price? I vaguely remember that there were several kinds of 2 x 16 display modules, and some were preferable to others.

Steve says the box he specified is a bit skimpy. Has anyone come up with a slightly larger commercial box?

I'm probably behind the eight ball, and will have the kit from Steve before I get around to purchasing the extras. Oh, well, I've been meaning to join the Procrastinators of America for over a year now, but haven't even downloaded the application blank from their web site.

Advice please. Tell this neophyte where to go to find these items. Tnx es

72/73 de n8xx Hg
QRP >99.44% of the time

11850. Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 05:27:34 UTC
From: ab6wl
Topic: 11849 Message: 11850

If you can't find a "local" supplier, Steve recommended the following two ebay links to buy the DDS module and the LCD --

http://www.ebay.com/itm/1pcs-AD9850-DDS-Signal-Generator-Module-/261012679149?pt=LH_DefaultDomain_0&hash=item3cc59169ed

http://www.ebay.com/itm/HD44780-1602-LCD-Module-Display-Anzeigen-2X16-Zeichen-Z8-/321113801675?pt=LH_DefaultDomain_0&hash=item4ac3dfc3cb

11851. Re: [AT_Sprint] Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 05:48:54 UTC
From: Hank Greeb
Topic: 11849 Message: 11851

Thanks Earle!

I'll try the local guys first - I've never been to their emporium, but a fellow ham saysthey have most everything imaginable. And, the local Chamber of Commerce wasplugging "buy local" recently - so, if parts are actuallyavailable locally, and theprice ok, I guess I'll buy them here in town.

Iwilllookcarefully at the specs forthe display - I remember some possiblity of getting parts with a different pinout.

This isbeginning to sound like fun!

72/73 de n8xx Hg
QRP >99.44% of the time

On 10/12/2013 1:27 AM, ab6wl wrote:
> If you can't find a "local" supplier, Steve recommended the following two ebay links to buy the DDS module and the LCD --
>
> http://www.ebay.com/itm/1pcs-AD9850-DDS-Signal-Generator-Module-/261012679149?pt=LH_DefaultDomain_0&hash=item3cc59169ed
>
> http://www.ebay.com/itm/HD44780-1602-LCD-Module-Display-Anzeigen-2X16-Zeichen-Z8-/321113801675?pt=LH_DefaultDomain_0&hash=item4ac3dfc3cb
>

11852. Re: [AT_Sprint] Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 15:02:10 UTC
From: Steven Weber
Topic: 11849 Message: 11852

As far as I know, you can only get the DDS module from China. If you buy it from someone else, your just paying for them to import it and mark it up.

Any 2 X 16 LCD module will work, but one would have to watch the pin out since ones with the pins other than along the top will likely have the pins in the opposite order and the connecting cable will need a twist in it. But for about $4.00 I doubt you can beat the China deal.

It takes 10 to 14 days for the parts to arrive from China, but your only paying $1 for postage!

Steve

I'll try the local guys first - I've never been to their emporium, but a fellow ham says they have most everything imaginable. And, the local Chamber of Commerce was plugging "buy local" recently - so, if parts are actually available locally, and the price ok, I guess I'll buy them here in town.

11853. AD9850 availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 15:14:24 UTC
From: Hank Greeb
Topic: 11837 Message: 11853

I'm wondering why the differential in price for the AD9850 from Mouser at $23 for a 584-AD9850BRSZ vs $5 or so from China, including free shipping. There are several other versions listed at Mouser, one for as low as $16, but one must order over a 1000 units to get this price.

Is the import duty for multiple units that great? Or, is it that the AD9850 isn't in wide use in the U.S. so it doesn't really pay for the parts suppliers to keep a stock on hand. Or are the Chinese units off-spec?

72/73 de n8xx Hg
QRP >99.44% of the time

11854. Re: [AT_Sprint] Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 15:23:30 UTC
From: Hank Greeb
Topic: 11849 Message: 11854

Yeah, I wonder how shipping an be so cheep from China, etc., but I'll bite. And, one supplier even pays the postage!

72/73 de n8xx Hg
QRP >99.44% of the time

p.s. Maybe, just maybe I can have the rig ready for the ARRL 160 contest, it Starts 2200 UTC Friday December 6, ends 1600 UTC Sunday December 8, 2013. Now THAT would be a real blast! Last year I was with a multi-single operation which had a 135' full quarter wave antenna, several beverage receiving antennae, and 1.5 KW rig. Until we had worked most all the stations we could hear, contacts were like shooting stationary targets, and most of them came to us!

On 10/12/2013 11:02 AM, Steven Weber wrote:
>
>
> As far as I know, you can only get the DDS module from China. If you
> buy it from someone else, your just paying for them to import it and
> mark it up.
> Any 2 X 16 LCD module will work, but one would have to watch the pin
> out since ones with the pins other than along the top will likely have
> the pins in the opposite order and the connecting cable will need a
> twist in it. But for about $4.00 I doubt you can beat the China deal.
> It takes 10 to 14 days for the parts to arrive from China, but your
> only paying $1 for postage!
> Steve
>
> I'll try the local guys first - I've never been to their emporium, but
> a fellow ham saysthey have most everything imaginable. And, the local
> Chamber of Commerce wasplugging "buy local" recently - so, if parts
> are actuallyavailable locally, and theprice ok, I guess I'll buy them
> here in town.
>
>
>

11855. Re: [AT_Sprint] ARE YOU ON THIS LIST? 160/80M kit reservations

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 16:32:07 UTC
From: Steven Weber
Topic: 11842 Message: 11855

I will let you know if I have any left over - doesn't seem likely at this point...
Steve

I would like one,

John Scherer, N0CTL

Sent from my iPhone

11856. Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 16:53:40 UTC
From: Paul Womble
Topic: 11849 Message: 11856

Here are the US sellers I purchased from on eBay:

16x2 LCD blue

http://www.ebay.com/itm/321190385089?ssPageName=STRK:MEWNX:IT&_trksid=p3984.m1439.l2649

DDS

http://www.ebay.com/itm/271261417422?ssPageName=STRK:MEWNX:IT&_trksid=p3984.m1439.l2649

They both arrived in about 3 days. I did buy 2 of each in case I let
the magic smoke out of either one. :-)

Paul K4FB

11857. Re: [AT_Sprint] Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 18:15:20 UTC
From: Gabriel Moreno
Topic: 11849 Message: 11857

I looked up one of those links and it show up as ship to US but buyer is in Hong Kong.

I was I afraid I wasn't going to find the two parts I needed but I ordered them from China.

I've wondered about shipping. I hope they're causing our postal system to be bankrupt.

Gabriel - N6OSB

Sent from my iPhone

On Oct 12, 2013, at 9:53 AM, Paul Womble <pwomble@...> wrote:

> Here are the US sellers I purchased from on eBay:
>
> 16x2 LCD blue
>
> http://www.ebay.com/itm/321190385089?ssPageName=STRK:MEWNX:IT&_trksid=p3984.m1439.l2649
>
> DDS
>
> http://www.ebay.com/itm/271261417422?ssPageName=STRK:MEWNX:IT&_trksid=p3984.m1439.l2649
>
> They both arrived in about 3 days. I did buy 2 of each in case I let
> the magic smoke out of either one. :-)
>
> Paul K4FB
>
>

11858. I may be a dunce

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 19:04:22 UTC
From: Hank Greeb
Topic: 11858 Message: 11858

Or, the fact that my messaging software cra$hed about a month ago, but I can't find details of how one programmes the AD9850 computer inside the new 160/80 meter transceiver.

I'm sure these data exist, because Steve said he has at least one prototype going. It's probably hidden somewhere in the "rescue" file which contains most of my inbox prior to the cra$h, but I haven't figured out the search terms to use.

Steve (or someone else) will you "please tell me where to go" for the computer program to run the AD9850 in the 160/80 rig?

I'm sure there are many people who would like to tell me where to go. :)

72/73 de n8xx Hg
QRP >99.44% of the time

11859. RE: I may be a dunce

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 19:09:07 UTC
From: <bruce.beford@...>
Topic: 11858 Message: 11859

there is no computer program required. The rig contains a microcontroller chip (Mega48) that controls the DDS. (The same as all the KD1JV ATS series rigs).
Bruce N1RX

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

Or, the fact that my messaging software cra$hed about a month ago, but I can't find details of how one programmes the AD9850 computer inside the new 160/80 meter transceiver.

I'm sure these data exist, because Steve said he has at least one prototype going. It's probably hidden somewhere in the "rescue" file which contains most of my inbox prior to the cra$h, but I haven't figured out the search terms to use.

Steve (or someone else) will you "please tell me where to go" for the computer program to run the AD9850 in the 160/80 rig?

I'm sure there are many people who would like to tell me where to go. :)

72/73 de n8xx Hg
QRP >99.44% of the time

11860. Re: [AT_Sprint] Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 19:39:12 UTC
From: Paul Womble
Topic: 11849 Message: 11860

Both of my orders came from New York.

Paul K4FB

On 10/12/2013 2:15 PM, Gabriel Moreno wrote:
> I looked up one of those links and it show up as ship to US but buyer
> is in Hong Kong.
>
> I was I afraid I wasn't going to find the two parts I needed but I
> ordered them from China.
>
> I've wondered about shipping. I hope they're causing our postal system
> to be bankrupt.
>
> Gabriel - N6OSB
>
> Sent from my iPhone
>
> On Oct 12, 2013, at 9:53 AM, Paul Womble <pwomble@...
> <mailto:pwomble@...>> wrote:
>
>> Here are the US sellers I purchased from on eBay:
>>
>> 16x2 LCD blue
>>
>> http://www.ebay.com/itm/321190385089?ssPageName=STRK:MEWNX:IT&_trksid=p3984.m1439.l2649
>>
>> DDS
>>
>> http://www.ebay.com/itm/271261417422?ssPageName=STRK:MEWNX:IT&_trksid=p3984.m1439.l2649
>>
>> They both arrived in about 3 days. I did buy 2 of each in case I let
>> the magic smoke out of either one. :-)
>>
>> Paul K4FB
>>
>

11861. Re: [AT_Sprint] RE: I may be a dunce

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 19:41:02 UTC
From: Hank Greeb
Topic: 11858 Message: 11861

OIC, (I guess). I wasn't paying attention to details.

Thanks for straightening me out.

72/73 de n8xx Hg

On 10/12/2013 3:09 PM, bruce.beford@... wrote:
>
> there is no computer program required. The rig contains a
> microcontroller chip (Mega48) that controls the DDS. (The same as all
> the KD1JV ATS series rigs).
>
> Bruce N1RX
>

11862. RE: MBDC (160/80M rig) manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 20:05:25 UTC
From: <jgaffke@...>
Topic: 11837 Message: 11862

> why the differential in price for the AD9850 from Mouser at $23 for a 584-AD9850BRSZ vs $5 or so from China

Profit! ???
In my experience buying LED flashlights and MR16 bulbs shipped from China, there can be quality issues from some manufacturers, others are good, and a low price does not necessarily mean it is a bad product.. Find a site such as dealextreme with lots of user reviews posted on products from many different manufacturers to get a feel for what kind of trouble to expect. I'm wearing prescription eyeglasses bought the same way from HK, good quality at a fraction of the cost extorted by the US conglomerates.

---In at_sprint@yahoogroups.com, <n8xx@...> wrote:

I'm wondering why the differential in price for the AD9850 from Mouser at $23 for a 584-AD9850BRSZ vs $5 or so from China, including free shipping. There are several other versions listed at Mouser, one for as low as $16, but one must order over a 1000 units to get this price.

Is the import duty for multiple units that great? Or, is it that the AD9850 isn't in wide use in the U.S. so it doesn't really pay for the parts suppliers to keep a stock on hand. Or are the Chinese units off-spec?

72/73 de n8xx Hg
QRP >99.44% of the time

11863. Re: [AT_Sprint] RE: MBDC (160/80M rig) manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-12 20:49:08 UTC
From: John Evans
Topic: 11837 Message: 11863

The story I heard was that a ton of these were built with incorrect filter values for their original design and so are being dumped as a result. They work fine for the frequencies we use them.

72 - john - n0hj

On 10/12/2013 2:05 PM, jgaffke@... wrote:
>
> > why the differential in price for the AD9850 from Mouser at $23 for
> a 584-AD9850BRSZ vs $5 or so from China
>
>

11864. Re: [AT_Sprint] AD9850 availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-13 15:07:11 UTC
From: Steven Weber
Topic: 11837 Message: 11864

Well, that's a good question, especially since the 9850 from China is a complete module, already assembled on a board with all the associated SMT parts needed to make it work (clock osc and output filter) and header pins, while the 9850 from Digi-Key is just the chip.

The best guess I have is that someone made a sh!t load of these and then didn't need them, so they became surplus. Maybe their salvaged out of something. Who knows, but if you can buy something which should retail for 50-60 bucks for 5 with free shipping, it would be foolish not to.

Steve KD1JV

I'm wondering why the differential in price for the AD9850 from Mouser at $23 for a 584-AD9850BRSZ vs $5 or so from China, including free shipping. There are several other versions listed at Mouser, one for as low as $16, but one must order over a 1000 units to get this price.

Is the import duty for multiple units that great? Or, is it that the AD9850 isn't in wide use in the U.S. so it doesn't really pay for the parts suppliers to keep a stock on hand. Or are the Chinese units off-spec?

72/73 de n8xx Hg
QRP >99.44% of the time

11865. RE: Re: [AT_Sprint] AD9850 availability

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-13 15:36:56 UTC
From: <bruce.beford@...>
Topic: 11837 Message: 11865

After examining the two Chinese modules I purchased, and comparing the AD9850 DDS chips to known authentic AD parts here- I am fairly certain these may be Chinese counterfeits of the AD DDS chips. The lettering is significantly different than the "real ones" I have here. As long as they work in this application- OK. If one fails, I'll replace it with a real Analog Devices spare.
Bruce N1RX

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

☐ Well, that's a good question, especially since the 9850 from China is a complete module, already assembled on a board with all the associated SMT parts needed to make it work (clock osc and output filter) and header pins, while the 9850 from Digi-Key is just the chip.

The best guess I have is that someone made a sh!t load of these and then didn't need them, so they became surplus. Maybe their salvaged out of something. Who knows, but if you can buy something which should retail for 50-60 bucks for 5 with free shipping, it would be foolish not to.

Steve KD1JV

I'm wondering why the differential in price for the AD9850 from Mouser at $23 for a 584-AD9850BRSZ vs $5 or so from China, including free shipping. There are several other versions listed at Mouser, one for as low as $16, but one must order over a 1000 units to get this price.

Is the import duty for multiple units that great? Or, is it that the AD9850 isn't in wide use in the U.S. so it doesn't really pay for the parts suppliers to keep a stock on hand. Or are the Chinese units off-spec?

72/73 de n8xx Hg
QRP >99.44% of the time

11866. RE: MBDC (160/80M rig) manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-13 15:31:33 UTC
From: <bruce.beford@...>
Topic: 11837 Message: 11866

I think it is very likely that the 9850 DDS chips on these are Chinese counterfeits. I have compared the lettering on the ICs to several known "real" 9850s here. They are different enough to lead me to believe this may be the case. As long as they work at the lower frequencies we are trying for, we're OK. If one fails, I've got authentic spares I can replace them with.
Bruce, N1RX
---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

☐ Well, that's a good question, especially since the 9850 from China is a complete module, already assembled on a board with all the associated SMT parts needed to make it work (clock osc and output filter) and header pins, while the 9850 from Digi-Key is just the chip.

The best guess I have is that someone made a sh!t load of these and then didn't need them, so they became surplus. Maybe their salvaged out of something. Who knows, but if you can buy something which should retail for 50-60 bucks for 5 with free shipping, it would be foolish not to.

Steve KD1JV

I'm wondering why the differential in price for the AD9850 from Mouser at $23 for a 584-AD9850BRSZ vs $5 or so from China, including free shipping. There are several other versions listed at Mouser, one for as low as $16, but one must order over a 1000 units to get this price.

Is the import duty for multiple units that great? Or, is it that the AD9850 isn't in wide use in the U.S. so it doesn't really pay for the parts suppliers to keep a stock on hand. Or are the Chinese units off-spec?

72/73 de n8xx Hg
QRP >99.44% of the time

11867. Re: [AT_Sprint] RE: MBDC (160/80M rig) manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-13 17:13:36 UTC
From: Gil WA5YKK
Topic: 11837 Message: 11867

Bruce, Steve;

This makes my back and arms ache, I got two separate packages back from two different sources, one had the readout(s0 in it, the other is the mounting module. I think that, since I'm aiming at sending the whole package off to an experienced expert to do the assembly, I'll wait for him to tell me "Yea" or "Nay", my time for this fall and winter is going to be used up with work on and repairs to two separate places that have to have extensive and difficult work done.
Isn't it time for someone group in the Asian area to get an idea going about overall standards, something like our SAE group here? That might reduce the outright theft and confusion of the end user.
Resolving this item may well take time away from putting a rig on the air!

73's
Gil WA5YKK

On 10/13/2013 10:31 AM, bruce.beford@... wrote:
>
> I think it is very likely that the 9850 DDS chips on these are Chinese
> counterfeits. I have compared the lettering on the ICs to several
> known "real" 9850s here. They are different enough to lead me to
> believe this may be the case. As long as they work at the lower
> frequencies we are trying for, we're OK. If one fails, I've got
> authentic spares I can replace them with.
>
> Bruce, N1RX
>
> ---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:
>
> □
> Well, that's a good question, especially since the 9850 from China is
> a complete module, already assembled on a board with all the
> associated SMT parts needed to make it work (clock osc and output
> filter) and header pins, while the 9850 from Digi-Key is just the chip.
> The best guess I have is that someone made a sh!t load of these and
> then didn't need them, so they became surplus. Maybe their salvaged
> out of something. Who knows, but if you can buy something which should
> retail for 50-60 bucks for 5 with free shipping, it would be foolish
> not to.
> Steve KD1JV
>
> I'm wondering why the differential in price for the AD9850 from Mouser
> at $23 for a 584-AD9850BRSZ vs $5 or so from China, including free

> shipping. There are several other versions listed at Mouser, one for
> as low as $16, but one must order over a 1000 units to get this price.
>
> Is the import duty for multiple units that great? Or, is it that the
> AD9850 isn't in wide use in the U.S. so it doesn't really pay for the
> parts suppliers to keep a stock on hand. Or are the Chinese units
> off-spec?
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>
>

11868. 160/80 Dual Bander

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-13 17:54:09 UTC
From: Bill Linn - W7WEL
Topic: 11868 Message: 11868

Well folks, looks like I have a couple sets of the controller and display that I won't be able to use. My request to Steve on August 24 to be on the list was apparently lost. So, if any of you lucky ones are in need of those chips, please let me know and we can work it out, they were low cost, came from China, what Steve reccomended.

Thanks,
Bill - W7WEL
--
Sent from my Android device with K-9 Mail. Please excuse my brevity.

11869. Re: [AT_Sprint] 160/80 Dual Bander

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-13 18:54:07 UTC
From: Hank Greeb
Topic: 11868 Message: 11869

What's the deal? Let me know and I'll send a check tomorrow. You can keep the chips until a week after you cash the check just to make sure the rubber on which I write checks doesn't bounce too hard. I don't like Paypal, but if you insist, I can do that too.

I'd probably like the two sets, because, as one fellow said, I don't want to let the smoke out of one and find I'm behind the 8 ball.

72/73 de n8xx Hg
QRP >99.44% of the time

On 10/13/2013 1:54 PM, Bill Linn - W7WEL wrote:
>
>
> Well folks, looks like I have a couple sets of the controller and
> display that I won't be able to use. My request to Steve on August 24
> to be on the list was apparently lost. So, if any of you lucky ones
> are in need of those chips, please let me know and we can work it out,
> they were low cost, came from China, what Steve reccomended.
>
> Thanks,
> Bill - W7WEL
> --
> Sent from my Android device with K-9 Mail. Please excuse my brevity.
>
>

11870. 160/180 LCD and AD9850

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-14 04:16:38 UTC
From: blinn@sm-email.com
Topic: 11870 Message: 11870

Thanks to all who expressed an interest. The chips have been sold.
Still hoping that Steve will have ample inventory to squeeze me in.
Otherwise, am hoping Doug will come up with something appealing.

72 Bill W7WEL

11871. Re: [AT_Sprint] Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-14 16:47:12 UTC
From: WA0ITP
Topic: 11849 Message: 11871

Does anyone know of a source for a bezel (aka escutcheon) for the 16x2 display?
I've looked but haven't been able to come up with a source. One would really
dress up the frtnt panel, imo.

Real radios weigh less than a pound.
I love this radio stuff !
72 WA0ITP
www.wa0itp.com
www.4sqrp.com

11872. RE: Re: ATS-4a new build - screen is blank

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-14 17:48:28 UTC
From: <owen@...>
Topic: 11818 Message: 11872

Before sending it to Steve, I got an electrical engineer/ham friend with good test equipment to look at the rig with me. I was surprised to find that the 32 khz crystal for U9 wasn't working. In spite of Steve saying in the manual that this could be a problem, it seemed very unlikely to me that a part like that would be DOA. But sure enough we replaced it and the rig booted up normally! Receiver seems to work, I was able to hear CW on 40m. If I'd had my own oscilloscope I would have figured this out much sooner. I'll finish peaking the receive filters soon and put it through its paces. Looking forward to finally getting on the air with it!

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

I have found that sometimes I get a "warp" in the board the screen is mounted on,and a slight adjustment of the screws holding it to the case will bring the illumination back on.Sometimes I guess it just shorts out a bit and relieving the tension helps to turn things back on.

Mecsr MikeSr AB7OC

Michael E. Califf,Sr.

11873. 160/80M enclosure?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-14 18:44:47 UTC
From: <ke5c@...>
Topic: 11873 Message: 11873

I ordered the enclosure Steve mentioned from Hendricks QRP Kits, and my PalPal account was charged, then several days later credited without comment. I've not had a respose to two emails, so I assume that enclosure is simply not available. Hence, if anyone comes up with something they like, please share with us. TIA and 73, john

11874. RE: [AT_Sprint] RE: Re: ATS-4a new build - screen is blank

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-14 18:43:04 UTC
From: Dale Putnam
Topic: 11818 Message: 11874

Very good to see it is working now. Sometimes... it is not the lack of smarts of the tech, but the lack of equipment that creates the failure to diagnose. COngrats for finding it... correcting it.. and moving straight ahead.Have a blast with it!!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: owen@...
Date: Mon, 14 Oct 2013 10:48:28 -0700
Subject: [AT_Sprint] RE: Re: ATS-4a new build - screen is blank

Before sending it to Steve, I got an electrical engineer/ham friend with good test equipment to look at the rig with me. I was surprised to find that the 32 khz crystal for U9 wasn't working. In spite of Steve saying in the manual that this could be a problem, it seemed very unlikely to me that a part like that would be DOA. But sure enough we replaced it and the rig booted up normally! Receiver seems to work, I was able to hear CW on 40m. If I'd had my own oscilloscope I would have figured this out much sooner. I'll finish peaking the receive filters soon and put it through its paces. Looking forward to finally getting on the air with it!

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

I have found that sometimes I get a "warp" in the board the screen is mounted on,and a slight adjustment of the screws holding it to the case will bring the illumination back on.Sometimes I guess it just shorts out a bit and relieving the tension helps to turn things back on.

Mecsr MikeSr AB7OC

Michael E. Califf,Sr.

11875. Re: [AT_Sprint] 160/80M enclosure?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-14 20:09:44 UTC
From: Hank Greeb
Topic: 11873 Message: 11875

Shucky durn. Does Ten Tec or MFJ or some similar place have a suitable enclosure?

72/73 de n8xx Hg
QRP >99.44% of the time

On 10/14/2013 2:44 PM, ke5c@... wrote:
>
> I ordered the enclosure Steve mentioned from Hendricks QRP Kits, and
> my PalPal account was charged, then several days later credited
> without comment. I've not had a respose to two emails, so I assume
> that enclosure is simply not available. Hence, if anyone comes up
> with something they like, please share with us. TIA and 73, john
>

11876. RE: [AT_Sprint] 160/80M enclosure?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-14 21:36:49 UTC
From: Gene Miller
Topic: 11873 Message: 11876
Attachments: 2 described; binary payloads are missing from this source WARC

Same experience here, except my credit stated that the enclosure was no longer available.

I have not yet started a search for an alternate, hopefully we will find something.

73

Gene, K1USR

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of ke5c@...
Sent: Monday, October 14, 2013 1:45 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] 160/80M enclosure?

I ordered the enclosure Steve mentioned from Hendricks QRP Kits, and my PalPal account was charged, then several days later credited without comment. I've not had a respose to two emails, so I assume that enclosure is simply not available. Hence, if anyone comes up with something they like, please share with us. TIA and 73, john

11877. Re: [AT_Sprint] Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-15 00:21:36 UTC
From: Charles Nolin
Topic: 11849 Message: 11877

Hello Terry,
Hope all is well.
Try looking at this number, PRD360B-NB, Check at Digi-key. Look at the others around this particular one as there may be a better choice for you??
Chuck Nolin
WA6LTV/4

On Monday, October 14, 2013 2:13 PM, WA0ITP <wa0itp@...> wrote:

Does anyone know of a source for a bezel (aka escutcheon) for the 16x2 display?
I've looked but haven't been able to come up with a source. One would really
dress up the frtnt panel, imo.

Real radios weigh less than a pound.
I love this radio stuff !
72 WA0ITP
www.wa0itp.com
www.4sqrp.com

11878. Re: [AT_Sprint] Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-15 01:26:03 UTC
From: John Evans
Topic: 11849 Message: 11878

Try PRD360B-ND at Digikey.

72 - john - n0hj

On 10/14/2013 6:21 PM, Charles Nolin wrote:
> Hello Terry,
> Hope all is well.
> Try looking at this number, PRD360B-NB, Check at Digi-key. Look at the
> others around this
> particular one as there may be a better choice for you??
> Chuck Nolin
> WA6LTV/4
>
>
> On Monday, October 14, 2013 2:13 PM, WA0ITP <wa0itp@...> wrote:
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> dress up the frtnt panel, imo.
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> Real radios weigh less than a pound.
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> 72 WA0ITP
> www.wa0itp.com
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>
>

11879. Re: [AT_Sprint] Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-15 16:47:47 UTC
From: Steven Weber
Topic: 11849 Message: 11879

> Does anyone know of a source for a bezel (aka escutcheon) for the 16x2
> display?
> I've looked but haven't been able to come up with a source. One would
> really
> dress up the frtnt panel, imo.
>
Digi-Key used to sell one. I've lost track of thier part number though.

Steve KD1JV

11880. Re: [AT_Sprint] Re: Parts?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-15 17:44:44 UTC
From: Lew Paceley
Topic: 11849 Message: 11880

I don't know if this bezel will fit your LCD but it's worth a look:
http://www.bgmicro.com/fancy-bezel-for-vk1000-met1043-1.aspx

Seems close to the right size.

73,
Lew
K7GO
MT

On Tue, Oct 15, 2013 at 10:47 AM, Steven Weber <steve.kd1jv@...>wrote:

>
>
> > Does anyone know of a source for a bezel (aka escutcheon) for the 16x2
> > display?
> > I've looked but haven't been able to come up with a source. One would
> > really
> > dress up the frtnt panel, imo.
> >
> Digi-Key used to sell one. I've lost track of thier part number though.
>
> Steve KD1JV
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

11881. Boxes for the 160/80 meter rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-15 17:48:28 UTC
From: Hank Greeb
Topic: 11849 Message: 11881

Will one of the several boxes available from Ten Tec fit the 160/80 meter rig?

They have boxes from <$10 to >$100.

Or, has anyone found an alternate source?

72/73 de n8xx Hg

11882. Re: Boxes for the 160/80 meter rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-15 17:51:22 UTC
From: John Evans
Topic: 11849 Message: 11882

WHAT? This won't fit in an altoids tin?? ;)

72 - john - n0hj

11883. Re: [AT_Sprint] Boxes for the 160/80 meter rig?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-15 23:14:49 UTC
From: Johnny Matlock
Topic: 11849 Message: 11883

Ge Hank
looks like a TP 41 from Ten Tec might be a good choice.
3 colors Aluminum, black and Charcoal.
7.38 on their web site.
I have used their cases before, very nicely built.
72
Johnny AC0BQ

On Tue, Oct 15, 2013 at 12:48 PM, Hank Greeb <n8xx@...> wrote:

> **
>
>
> Will one of the several boxes available from Ten Tec fit the 160/80 meter
> rig?
>
> They have boxes from <$10 to >$100.
>
> Or, has anyone found an alternate source?
>
> 72/73 de n8xx Hg
>
>

11884. ATS-4a - sometimes won't boot, sometimes won't turn off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-16 02:13:21 UTC
From: Owen B. Mehegan
Topic: 11884 Message: 11884

So, as I mentioned yesterday, after replacing the dead 32 khz crystal that came with my ATS-4a kit with one from a junk box, I got it to boot up. Since then, though, I'm seeing that it doesn't boot up reliably. One minute it does, the next minute it doesn't. The solder joints are fine, so I'm guessing part of the problem is that I should use a crystal that's identical in spec (not just frequency) to the original one.

Another thing I'm noticing is that when the rig DOES boot, I can't turn it off completely. If I hold down FN, I see "OFF" on the display after a few seconds, but releasing the button does nothing further. The rig seems to be in a locked state and I have to pull the battery to shut it off. What would cause that?

--
owen@nerdnetworks.org (Owen B. Mehegan)
'I spent a lot of money on booze, birds and fast cars. The rest I just squandered.'
--George Best

11885. Ten Tec MBDC enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-16 16:39:45 UTC
From: <steve.kd1jv@...>
Topic: 11885 Message: 11885

Actually, the TP/TPB/TPC-45 Ten-Tec case looks like it would be best. And for just under $9.00, what a deal.

http://www.tentec.com/categories/Enclosures/T-Series-Enclosures/
http://www.tentec.com/categories/Enclosures/T-Series-Enclosures/ you have to click on the picture to get more info, the text link is broken.

The minium size for a case is 5" x 5" x 2.25"

The -45 case is 6.4" wide, 5.2" deep and 2.6" high.

The little extra higth of the case compared to the Hendricks case allows for moving the display a little higher and giving more clearance to the volume control and PB switch extention shafts.

The wider front panel would let you move the tuning encoder over a bit more, giving better access to the PB switches and or allowing for a bigger knob.

Steve KD1JV

11886. RE: ATS-4a - sometimes won't boot, sometimes won't turn off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-16 16:45:44 UTC
From: <steve.kd1jv@...>
Topic: 11884 Message: 11886

The crystal shouldn't matter, thier all about the same execpt maybe for size. You'd best take a real close look at the solder connections to the pins the crystal connects to at the processor.

As for it not turning off, that is a real simple circuit. Something is keeping the pass fet turned on and there are only a couple of things which can do that. A short across the On switch (the cap or mosfet) or a short at the processor keeping the pin which goes to the gate of Q3 high.

Steve

---In at_sprint@yahoogroups.com, <owen@...> wrote:

So, as I mentioned yesterday, after replacing the dead 32 khz crystal that came with my ATS-4a kit with one from a junk box, I got it to boot up. Since then, though, I'm seeing that it doesn't boot up reliably. One minute it does, the next minute it doesn't. The solder joints are fine, so I'm guessing part of the problem is that I should use a crystal that's identical in spec (not just frequency) to the original one.

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--
owen@... mailto:owen@... (Owen B. Mehegan)
'I spent a lot of money on booze, birds and fast cars. The rest I just squandered.'
--George Best

11887. RE: [AT_Sprint] Ten Tec MBDC enclosure

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-16 16:55:47 UTC
From: Hinds, Don
Topic: 11885 Message: 11887

Thanks Steve!
I was having trouble figuring out how to get it ordered. Clicking the picture was one thing I hadn’t tried. Got mine on the way.

73,
Don
WD4ON

11888. MBDC Switches

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-17 03:01:19 UTC
From: <johnroland51@...>
Topic: 11888 Message: 11888

I'm wondering if it would cause any problems to use off-board panel mounted toggle switches for S2,S3 and S4? A front panel mounted DPDT seems like a good alternative to the 2 slide switches for the filter switches. Seems like it would be more convenient and provide more options for cases.

11889. Re: [AT_Sprint] MBDC Switches

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-17 16:00:19 UTC
From: Steven Weber
Topic: 11888 Message: 11889

I'm wondering if it would cause any problems to use off-board panel mounted toggle switches for S2,S3 and S4? A front panel mounted DPDT seems like a good alternative to the 2 slide switches for the filter switches. Seems like it would be more convenient and provide more options for cases.

You could do that for the Rx input switch, but I'd be concerned about using a DPDT for the transmitter filter.

There could be two possible problems.

1) the extra lead length to the switch might cause stability problems with the PA. Although this might not be a problem given the relatively low frequency of this rig's transmitter.

2) This is the more important one, there would be less isolation between the input and output of the filter, due to coupling between the wires running to the switch and at the switch it's self.

Oh, and there is one other problem, you'd need a second switch to tell the processor which band is selected. So, concern #2 would be lessend when using two switches, one for input and one for output as it is now. Although you could use a 3PDT toggle. Thier not as common, but they can be found, pricey though.

But there would be space penality having to use two DPDT toggle switches. In order to keep the lead length to the switches as short and as direct as possible, they should be mounted in line with the existing switches on the front panel and a low as possible. The connections should be routed under the board in an effort to minimize any coupling to other parts of the circuit.

Finally, if you use "minature" toggle switches, there won't be enough clearance between the board and front panel without getting longer shaft extenders for the PB switches. Which means you'd end up putting the switches on the back panel, which is almost as bad as having to lift the case up to operate the slide switches from the bottom, so you don't gain much in terms of ease of use.

Steve KD1JV

11890. RE: MBDC Switches

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-18 16:44:48 UTC
From: <bruce.beford@...>
Topic: 11888 Message: 11890

Another possibility would be to package the MBDC similar to the ATS-4, with the display on top. Just make some extensions for the handles on the existing switches to reach the cover. Use a fairly low height case.
-Bruce N1RX

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

□
I'm wondering if it would cause any problems to use off-board panel mounted toggle switches for S2,S3 and S4? A front panel mounted DPDT seems like a good alternative to the 2 slide switches for the filter switches. Seems like it would be more convenient and provide more options for cases.

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Steve KD1JV

11891. MTR in Action on a SOTA summit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-18 20:35:26 UTC
From: <f_skinner@...>
Topic: 11891 Message: 11891

Although this is not the maiden voyage of my MTR it is the first time I used it in the Altoids tin. I have not decided on the labeling of everything yet so it is just white for now. I included a cheesy (read that rushed) link of the audio. The audio is from a real cheap cube speaker I found at walmart for ten dollars. I prefer the headphones but for recording it works ok.

This radio along with the End Fed is fast becoming one of my favorite setups. Link is here: http://k0jqz.blogspot.com http://k0jqz.blogspot.com

Thanks to TJ, W0EA, for blogging about the battery I ended up using.

73 Frank
K0JQZ

11892. 160/80 xcvr

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-19 18:49:02 UTC
From: Bob Cutter
Topic: 11892 Message: 11892

Mine arrived today, looks like Steve has created another wonder. Thanks.

72, Bob KI0G

11893. RE: MTR in Action on a SOTA summit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-18 21:16:45 UTC
From: <srmaietta@...>
Topic: 11891 Message: 11893

Great pics, that place looks spectacular..
thanks for posting
73
~Steve

---In at_sprint@yahoogroups.com, <f_skinner@...> wrote:

Although this is not the maiden voyage of my MTR it is the first time I used it in the Altoids tin. I have not decided on the labeling of everything yet so it is just white for now. I included a cheesy (read that rushed) link of the audio. The audio is from a real cheap cube speaker I found at walmart for ten dollars. I prefer the headphones but for recording it works ok.

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Thanks to TJ, W0EA, for blogging about the battery I ended up using.

73 Frank
K0JQZ

11894. MBDC Rig LCD Bezel and Installation notes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-22 00:31:08 UTC
From: WA0ITP
Topic: 11894 Message: 11894

Thanks to all who responded to my query about a bezel for the 16x2 LCD. The PRD250B appears to be the correct one, it's available from Digikey, http://www.digikey.com/product-search/en?vendor=0&keywords=PRD250b-nd

Mounting the LCD behind the bezel and panel is a bit tedious but is easy enough. Long time QRPer and FB builder Dave Rogers, WB4CHK, details the process well. It is posted here with some slight changes on my part, and is posted with permission. Any mistakes are mine alone.

1. Selecting and preparing the Bezel:
The inside cutout of the bezel is smaller than the overall size of the bezel, so the bezel size is selected by the opening size needed for the LCD to be used. Plastic masks can be purchased that fit against the LCD face plate to mask off the unused part of the LCD face, also color filters are available. Note that the
snap in mounting attachments aren't used, and the "nibs" must be removed so the LCD can fit flush against the back of the bezel. There are also bosses at the corners on the back of the bezel that require removing. File them off so that the corners are square and the bezel will drop into it's opening.

2. Select and mark the LCD position on the panel:
Position the bezel on the panel, ands using it as a guide, mark the inside of the opening for the LCD Window. It's important to realize that the LCD fits behind the bezel and doesn't protrude thru the bezel opening. The LCD opening is smaller than the overall bezel size so the cutout size is not critical,
the Bezel flange will cover most cutting mistakes and ragged edges.

3. Cutting the LCD opening:
The cutout size is larger than the LCD opening so that the bezel will fit into it and cover the raw edges of the panel. The actual opening size for the PRD250B will wind up being approx 2 3/4" x 1 1/16". Measure your bezel first, or check the data sheet for the recommended opening sizel. Using a Dremel, or the drill and file method, cut out the opening and file it until till the bezel just fits into the cutout. Install the bezel and tape it to the front of the panel by it's edges, leaving the opening clear of tape. The bezel flange will cover the ragged edges of the opening.

4. Preparing the LCD:
Four 4/40 flathead phillips screws one inch long are used to mount the LCD. There are four mounting holes on the corners of the LCD pc board which need to be enlarged. Using a 1/8" drill, CAREFULLY drill them out to accomodate the 4/40 screws. Insert a screw in each hole, flat head toward the front of the LCD, and place a 4/40 nut on each screw, don't tighten the nuts yet. After drilling the LCD holes note that the screws are loose in the holes.

5. Installing the LCD:
Place the LCD with the screws loosely attached on the inside of the panel. Hold it in place with one hand and look through the front bezel opening to center the LCD inside the Bezel opening. When satisfied use masking tape to hold the LCD in place.

6. Recheck to make sure the LCD is positioned in the center of the bezel opening. If not, recenter and retape it until you are satisfied with the position. Then place the panel face down on the bench, the screws will drop into place against the inside of the panel. Align them vertically, and adjust the position of the 4/40 nuts so the flat heads of the screws are just in contact with the panel. These screws will become the mounting posts for the LCD.

7. Place a drop of instant (cyanoacrylate) glue on each screw head. After it cures, remove the 4/40 nuts, carefully remove the masking tape, lift off the LCD, and also remove the bezel from the front of the panel. Add a dollop of epoxy to permanently attach the screws,

You now have an LCD ready front panel with a bezel cut out. At this point label, decal, paint, letter or otherwise decorate the panel as you desire.

8. Finish the installation:

Install the bezel with a drop or two of glue and hold it in place with masking tape until the glue cures. Contact cement, epoxy, instant glue all will work fine, White glue can be used if you think the bezel may needed for another project in the future, it will pop off easily. Again, note that the snap in mounting attachments aren't used, and the "nibs" must be removed so the LCD can fit flush against the back of the bezel.

Install the LCD by sliding it over the 4-40 screws and snugging the nuts down so the front of the LCD butts against the back of the bezel. Be very careful not to over tighten the nuts and pop the screw heads loose from the panel. Finger tightening will adequate in most cases.

Hope this helps

Real radios weigh less than a pound.
I love this radio stuff !
72 WA0ITP
www.wa0itp.com
www.4sqrp.com

11895. Re: [AT_Sprint] MBDC Rig LCD Bezel and Installation notes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-22 01:29:37 UTC
From: Johnny Matlock
Topic: 11894 Message: 11895

Thanks Terry
72
Johnny AC0BQ

On Monday, October 21, 2013, WA0ITP wrote:

> **
>
>
> Thanks to all who responded to my query about a bezel for the 16x2 LCD. The
> PRD250B appears to be the correct one, it's available from Digikey,
> http://www.digikey.com/product-search/en?vendor=0&keywords=PRD250b-nd
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> Mounting the LCD behind the bezel and panel is a bit tedious but is easy
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> LCD inside the Bezel opening. When satisfied use masking tape to hold the
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>
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> opening. If not, recenter and retape it until you are satisfied with the
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> project in the future, it will pop off easily. Again, note that the snap in
> mounting attachments aren't used, and the "nibs" must be removed so the
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> fit flush against the back of the bezel.
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> Hope this helps
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> I love this radio stuff !
> 72 WA0ITP
> www.wa0itp.com
> www.4sqrp.com
>
>
>

--
QRP....."more smiles per watt"

11896. MBDC Arrived yesterday

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-22 17:17:27 UTC
From: k1thp
Topic: 11896 Message: 11896

It came yesterday and I am starting to build this afternoon. I still have to select an enclosure and am looking seriously the the Ten-Tec box. Wonder if someone can come up with a cutting/drilling template for it. Even better, someone that can do the machining for a fair price.

Thanks Steve for another fun kit.
73,
Dave K1THP

11897. Re: [AT_Sprint] MBDC Arrived yesterday

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-22 17:50:55 UTC
From: Hank Greeb
Topic: 11896 Message: 11897

If you find someone who can make a box pretty with machine tools, please let me know.

My son in law's father was a machinist, but he retired quite a few years ago.

Note, Steve suggested one a few daze back. Review your messages in the conference for details.

72/73 de n8xx Hg
QRP >99.44% of the time

On 10/22/2013 1:17 PM, k1thp wrote:
> It came yesterday and I am starting to build this afternoon. I still have to select an enclosure and am looking seriously the the Ten-Tec box. Wonder if someone can come up with a cutting/drilling template for it. Even better, someone that can do the machining for a fair price.
>
> Thanks Steve for another fun kit.
> 73,
> Dave K1THP

11898. Re: [AT_Sprint] MBDC Arrived yesterday

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-22 17:54:19 UTC
From: Lee Hiers
Topic: 11896 Message: 11898

I don't have the mechanical skills for it, but I've seen some nice boxes done from PC board....AA7EE is one who does nice work:
http://aa7ee.wordpress.com/

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

On Tue, Oct 22, 2013 at 1:50 PM, Hank Greeb <n8xx@...> wrote:

> **
>
>
> If you find someone who can make a box pretty with machine tools, please
> let me know.
>

11899. MTR sn 249 lives

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-22 21:17:32 UTC
From: <denis.f6crp@...>
Topic: 11899 Message: 11899

Hello folks,
after keeping the kit in a box for months, i decided to build it. After few hours of (hard) labour, the sn 249 is operational.

What a wonderful transceiver, exactly what I wanted to do QRP on vacation.

Huge thanks to Steve for all the work required to design and deliver this kit.

73 Denis F6CRP

11900. Re: MTR sn 249 lives

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-22 21:45:03 UTC
From: Klaus, DL1BJA
Topic: 11899 Message: 11900

Hello Denis,
congratulations. Hope we will meet us from MTR SN/249 to MTR SN/188 in the near future. Built mine for 40m and 20m. First tested by watching Reserve Beacon Network.
have fun
73 de Klaus, DL1BJA

11901. RE: Re: [AT_Sprint] MBDC Arrived yesterday

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-22 22:40:41 UTC
From: <hauntedmesa@...>
Topic: 11896 Message: 11901

This might be a good time to try your hand at a pcb fabricated chassis. With a little effort you can make a strong, attractive, individualized chassis for this project.

http://www.qrpbuilder.com/downloads/pcb_chassis_a.pdf
http://www.qrpbuilder.com/downloads/pcb_chassis_a.pdf

ken - wa4mnt

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

I don't have the mechanical skills for it, but I've seen some nice boxes done from PC board....AA7EE is one who does nice work: http://aa7ee.wordpress.com/
http://aa7ee.wordpress.com/

73 de Lee
-- Lee Hiers, AA4GA
www.aa4ga.com http://www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com http://www.qrpdx.com!

On Tue, Oct 22, 2013 at 1:50 PM, Hank Greeb <n8xx@... mailto:n8xx@...> wrote:
If you find someone who can make a box pretty with machine tools, please let me know.

11902. MBDC Info and Assembly notes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-23 01:29:18 UTC
From: <k7dd@...>
Topic: 11902 Message: 11902

My radio arrived last week and I finally got time to get busy with assembly and looking for the case I wanted to put it into.
The case I had was just a hair (Red) too narrow to put it into but would have been a very compact product. It just made me nervous having to sand the sides of the board down a bit to fit and still need a shade more room.
Circuit Specialists in Tempe Arizona. They have a box that is just perfect save it is a bit heavy because the top is steel and the front bottom and back and front are aluminium. The aluminium has a plastic film on it for make up and drilling. It peels off when done and are ready to paint.
Model of the box pt # is E-2. Price? $8.25 and they had 13 left in stock when I got mine yesterday. It cost more in gas to drive over and get it...
Not much description but the black outer steel case is in a spatter knockdown texture much like Drake radios had.
http://www.circuitspecialists.com/e-2.html http://www.circuitspecialists.com/e-2.html

A few quick notes on the assembly instructions and parts count.
There are two 470pf caps that are on the board but not listed in the parts list or the assembly BUT they are on the schematic and the board.
There is a miss label of C26 in that it is not listed on the assembly list. It is there.
If you have ANY doubts in the assembly, check the schematic against the board and the parts list.
I had a spare diode in my kit. Thank you Steve. ;>)
TAKE YOUR TIME sorting all of the resistors out and check each one with a VOM so you KNOW what values you have and how many. It is REALLY easy to accidentally put a 220K resistor in place for the 220 OHM resistor or 22K resistors. I know because in my haste I had to take a few parts off and exchange them for the correct ones. Wasted time that could have been prevented IF I took my time and didn't try to do it just before bed. Zzzzzz.
I just figured if I can do it, anyone can so check your parts FIRST. ;>)

Thoughts:
Although I have drilled the bottom of the chassis to match up to the band and antenna switches it occurred to me that maybe a pair of small DIP latching relays could be used with a single push button to do the band changing from the front panel. Any thoughts on that from the collective?

At one point I also thought about putting a pair of antenna jacks on the back and latching relay switch them as well for separate antennas. Maybe later.
Now if I could only accomodate some sort of band switched front end filter so it would make a good GP receiver. I will try it with and without filters I currently have to see how it plays...

So far the hardest thing is accurately cutting the rectangular hole for the display. My hand is still sore from the nibbler but it is taking shape.

I have used the.100 pin headers through out the rig so everything is a plug in for ?
Because it makes it look nice..

When finished I will post pics to the files section.

I was hoping to get it finished for the 160 contest and Sweepstakes so lets see how close I can get.

BTW, did everyone go crazy on 10M the last few days? WOW, nice to hear it back to life for however long it lasts.

Mike Baker K7DD

11903. Re: [AT_Sprint] MBDC Info and Assembly notes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-23 04:53:39 UTC
From: Ted Groke
Topic: 11902 Message: 11903

MBDC Builders,

I'm not finished putting my unit together yet but I thought I'd let everyone know that R7 is shown as both 224 and 22K in the parts list. Of course the correct value is 220K. 73,

Ted, W2TAG

On Tue, Oct 22, 2013 at 9:29 PM, <k7dd@...> wrote:

>
>
> My radio arrived last week and I finally got time to get busy with
> assembly and looking for the case I wanted to put it into.
>
> The case I had was just a hair (Red) too narrow to put it into but would
> have been a very compact product. It just made me nervous having to sand
> the sides of the board down a bit to fit and still need a shade more room.
> Circuit Specialists in Tempe Arizona. They have a box that is just perfect
> save it is a bit heavy because the top is steel and the front bottom and
> back and front are aluminium. The aluminium has a plastic film on it for
> make up and drilling. It peels off when done and are ready to paint.
> Model of the box pt # is E-2. Price? $8.25 and they had 13 left in stock
> when I got mine yesterday. It cost more in gas to drive over and get it...
> Not much description but the black outer steel case is in a spatter
> knockdown texture much like Drake radios had.
> http://www.circuitspecialists.com/e-2.html
>
> A few quick notes on the assembly instructions and parts count.
> There are two 470pf caps that are on the board but not listed in the parts
> list or the assembly BUT they are on the schematic and the board.
> There is a miss label of C26 in that it is not listed on the assembly
> list. It is there.
> If you have ANY doubts in the assembly, check the schematic against the
> board and the parts list.
> I had a spare diode in my kit. Thank you Steve. ;>)
> TAKE YOUR TIME sorting all of the resistors out and check each one with a
> VOM so you KNOW what values you have and how many. It is REALLY easy to
> accidentally put a 220K resistor in place for the 220 OHM resistor or 22K
> resistors. I know because in my haste I had to take a few parts off and
> exchange them for the correct ones. Wasted time that could have been
> prevented IF I took my time and didn't try to do it just before bed.
> Zzzzzz.
> I just figured if I can do it, anyone can so check your parts FIRST. ;>)
>
> Thoughts:

> Although I have drilled the bottom of the chassis to match up to the band
> and antenna switches it occurred to me that maybe a pair of small DIP
> latching relays could be used with a single push button to do the band
> changing from the front panel. Any thoughts on that from the collective?
>
> At one point I also thought about putting a pair of antenna jacks on the
> back and latching relay switch them as well for separate antennas. Maybe
> later.
> Now if I could only accomodate some sort of band switched front end filter
> so it would make a good GP receiver. I will try it with and without filters
> I currently have to see how it plays...
>
> So far the hardest thing is accurately cutting the rectangular hole for
> the display. My hand is still sore from the nibbler but it is taking shape.
>
> I have used the.100 pin headers through out the rig so everything is a
> plug in for ? Because it makes it look nice..
>
> When finished I will post pics to the files section.
>
> I was hoping to get it finished for the 160 contest and Sweepstakes so
> lets see how close I can get.
>
> BTW, did everyone go crazy on 10M the last few days? WOW, nice to hear it
> back to life for however long it lasts.
>
> Mike Baker K7DD
>
>
>
>

11904. MBDC preselector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-23 18:15:49 UTC
From: <jackier1061@...>
Topic: 11904 Message: 11904

In the manual, a preselector is mentioned for possible use when using the rig as a general coverage receiver. Does anyone have plans for a preselector that would be appropriate?

AC4EH
Jackie Russell

11905. Re: [AT_Sprint] MBDC Arrived yesterday

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-23 23:27:51 UTC
From: camqrp@...
Topic: 11896 Message: 11905

And if you are going to try fabricating a board from pcb material you might want to check out the clamps that Rex W1REX sells on his QRPMe site, http://www.qrpme.com/docs/SBSS.pdf. Mine just arrived in the mail, haven't had a chance to use them yet but I certainly will soon.

73,

Cam N6GA

--- In AT_Sprint@yahoogroups.com, <hauntedmesa@...> wrote:
>
> This might be a good time to try your hand at a pcb fabricated chassis. With a little effort you can make a strong, attractive, individualized chassis for this project.
>
> http://www.qrpbuilder.com/downloads/pcb_chassis_a.pdf
http://www.qrpbuilder.com/downloads/pcb_chassis_a.pdf
>
> ken - wa4mnt
>
>

11906. Re: [AT_Sprint] MBDC preselector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-24 02:52:20 UTC
From: Steven Weber
Topic: 11904 Message: 11906

When I get a chance, I'm going to try a small, tuned loop. Maybe a foot across so it can sit on a table near-by. Not only does it provide selectivity, it cuts down on noise.

Steve KD1JV
In the manual, a preselector is mentioned for possible use when using the rig as a general coverage receiver. Does anyone have plans for a preselector that would be appropriate?

11907. Re: [AT_Sprint] MBDC Info and Assembly notes.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-24 03:52:47 UTC
From: Ted Groke
Topic: 11902 Message: 11907

MBDC Builders,

I haven't had much time to work on my MBDC today but I noticed that the fourth item in the capacitor listing reads:

68 (68 pfd, MLCC) – 2 places – C28, C29 Be careful not to mix up with 680 pfd (681) caps

but should read:

68 (68 pfd, MLCC) – 2 places – *C27*, C29 Be careful not to mix up with 680 pfd (681) caps

Ted, W2TAG

On Wed, Oct 23, 2013 at 12:53 AM, Ted Groke <w2tag@...> wrote:

> MBDC Builders,
>
> I'm not finished putting my unit together yet but I thought I'd let
> everyone know that R7 is shown as both 224 and 22K in the parts list. Of
> course the correct value is 220K. 73,
>
> Ted, W2TAG
>
>
> On Tue, Oct 22, 2013 at 9:29 PM, <k7dd@...> wrote:
>
>>
>>
>> My radio arrived last week and I finally got time to get busy with
>> assembly and looking for the case I wanted to put it into.
>>
>> The case I had was just a hair (Red) too narrow to put it into but would
>> have been a very compact product. It just made me nervous having to sand
>> the sides of the board down a bit to fit and still need a shade more room.
>> Circuit Specialists in Tempe Arizona. They have a box that is just
>> perfect save it is a bit heavy because the top is steel and the front
>> bottom and back and front are aluminium. The aluminium has a plastic film
>> on it for make up and drilling. It peels off when done and are ready to
>> paint.
>> Model of the box pt # is E-2. Price? $8.25 and they had 13 left in stock
>> when I got mine yesterday. It cost more in gas to drive over and get it...
>> Not much description but the black outer steel case is in a spatter
>> knockdown texture much like Drake radios had.
>> http://www.circuitspecialists.com/e-2.html
>>

>> A few quick notes on the assembly instructions and parts count.
>> There are two 470pf caps that are on the board but not listed in the
>> parts list or the assembly BUT they are on the schematic and the board.
>> There is a miss label of C26 in that it is not listed on the assembly
>> list. It is there.
>> If you have ANY doubts in the assembly, check the schematic against the
>> board and the parts list.
>> I had a spare diode in my kit. Thank you Steve. ;>)
>> TAKE YOUR TIME sorting all of the resistors out and check each one with a
>> VOM so you KNOW what values you have and how many. It is REALLY easy to
>> accidentally put a 220K resistor in place for the 220 OHM resistor or 22K
>> resistors. I know because in my haste I had to take a few parts off and
>> exchange them for the correct ones. Wasted time that could have been
>> prevented IF I took my time and didn't try to do it just before bed.
>> Zzzzzz.
>> I just figured if I can do it, anyone can so check your parts FIRST. ;>)
>>
>> Thoughts:
>> Although I have drilled the bottom of the chassis to match up to the band
>> and antenna switches it occurred to me that maybe a pair of small DIP
>> latching relays could be used with a single push button to do the band
>> changing from the front panel. Any thoughts on that from the collective?
>>
>> At one point I also thought about putting a pair of antenna jacks on the
>> back and latching relay switch them as well for separate antennas. Maybe
>> later.
>> Now if I could only accomodate some sort of band switched front end
>> filter so it would make a good GP receiver. I will try it with and without
>> filters I currently have to see how it plays...
>>
>> So far the hardest thing is accurately cutting the rectangular hole for
>> the display. My hand is still sore from the nibbler but it is taking shape.
>>
>> I have used the.100 pin headers through out the rig so everything is a
>> plug in for ? Because it makes it look nice..
>>
>> When finished I will post pics to the files section.
>>
>> I was hoping to get it finished for the 160 contest and Sweepstakes so
>> lets see how close I can get.
>>
>> BTW, did everyone go crazy on 10M the last few days? WOW, nice to hear
>> it back to life for however long it lasts.
>>
>> Mike Baker K7DD
>>
>>
>>
>>
>

>

11908. Re: MBDC preselector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-24 21:00:33 UTC
From: John Roland
Topic: 11904 Message: 11908

I've been looking at this plan for a
preselector<http://www.windsweptpress.com/preselector.htm>. I
purchased a little larger case (ten tec tpc-47) hoping there would be
room to include one.
/John

11909. Updated MBDC manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-24 21:33:31 UTC
From: <steve.kd1jv@...>
Topic: 11909 Message: 11909

I just up loaded an updated MBDC manual with the missing 470 pfd caps in the placement listing and corrected the C27 typo. With only these two mistakes, I did pretty well this time, eh?

I also added a Chinese seller URL for the display and DDS module to the manual, so you don't have to search for it. I would recommend getting these parts soon if you haven't already as we don't know how long they will be available. You don't want to sit on this kit for a couple of years and then find out the critical part is no longer available!

11910. Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-25 00:25:29 UTC
From: Steven Weber
Topic: 11584 Message: 11910

I'm finally ready to start shipping DX orders for this kit. For your convienence, I made a paypal "buy it now" button at http://kd1jv.qrpradio.com/MBDC_order.htm

Thanks, Steve KD1JV

> Hi Steve,
>
> I'd also like to reserve/purchase one if I'm not yet too late.
>
> mni tnx es vy73,
>
> Peter HB9TVK
>

11911. RE: Re: [AT_Sprint] Re: New 160/80 meter transceiver design - kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-25 21:22:34 UTC
From: <steve.kd1jv@...>
Topic: 11584 Message: 11911

Humm, that message wasn't suppost to go the the group. I guess I accidently clicked on someone who replied to the group and not to me directly. Which brings up the issue of a couple of DX stations I don't have email adderess for.

These are:

M3WCK, VK2RH, G3XLG, G4ISJ, G0BPU and F6GWE.

If your on the above list, fell free to use the link to the paypal button.

Steve KD1JV

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

I'm finally ready to start shipping DX orders for this kit. For your convienence, I made a paypal "buy it now" button at http://kd1jv.qrpradio.com/MBDC_order.htm http://kd1jv.qrpradio.com/MBDC_order.htm

Thanks, Steve KD1JV

> Hi Steve,
>
> I'd also like to reserve/purchase one if I'm not yet too late.
>
> mni tnx es vy73,
>
> Peter HB9TVK
>

11912. Any rumours? Is Steve Weber coming out with more?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-25 22:05:27 UTC
From: <af8f@...>
Topic: 11912 Message: 11912

Can we look forward to a new radio from Steve Weber?

I would love to have a Mountain Topper! Would anyone here care to sell one?

Bruce AF8F
af8f@arrl.net

11913. RE: Updated MBDC manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-26 20:35:20 UTC
From: <arthurripple@...>
Topic: 11909 Message: 11913

Uploaded MBCD where , A link to it would be good for the ones that do not know how to find it ?
I looked on your kd1jv web page and do not see it?
Arthur NS7E

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

I just up loaded an updated MBDC manual with the missing 470 pfd caps in the placement listing and corrected the C27 typo. With only these two mistakes, I did pretty well this time, eh?

I also added a Chinese seller URL for the display and DDS module to the manual, so you don't have to search for it. I would recommend getting these parts soon if you haven't already as we don't know how long they will be available. You don't want to sit on this kit for a couple of years and then find out the critical part is no longer available!

11914. Re: [AT_Sprint] RE: Updated MBDC manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-26 20:50:39 UTC
From: Hank Greeb
Topic: 11909 Message: 11914

Probably in the files section of this yahoo group.

That's just my SWAG.

72/73 de n8xx Hg
QRP >99.44% of the time

On 10/26/2013 4:35 PM, arthurripple@... wrote:
>
> Uploaded MBCD where , A link to it would be good for the ones that do
> not know how to find it ?
>
> I looked on your kd1jv web page and do not see it?
>
> Arthur NS7E
>

11915. Re: [AT_Sprint] RE: Updated MBDC manual

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-26 20:54:05 UTC
From: Hank Greeb
Topic: 11909 Message: 11915

*t**ry:

http://groups.yahoo.com/neo/groups/at_sprint/files/MBDC%20rig

That's where I found it. I think you must be a member of yahoo - can't
be sure. If you have difficulty, I'll download a copy and send it as
an attachment to a private e-mail.

72/73 de n8xx Hg
QRP >99.44% of the time

*
On 10/26/2013 4:35 PM, arthurripple@... wrote:
>
>
> Uploaded MBCD where , A link to it would be good for the ones that do
> not know how to find it ?
>
> I looked on your kd1jv web page and do not see it?
>
> Arthur NS7E
>

11916. Active Ferrite Rod Antenna by OH7SV / OH2NLT

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-27 08:32:25 UTC
From: <bubnikv@...>
Topic: 11916 Message: 11916

Gang,

I posted pictures and notes about the active ferrite rod antenna I built for my ATS-3b

http://ok1iak.blogspot.cz/2013/10/active-ferrite-rod-antenna-by-oh7sv.html

73, Vojtech OK1IAK

11917. Lazy Islander Rig on IOTA AS-128...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-28 07:18:39 UTC
From: <xv4y@...>
Topic: 11917 Message: 11917

Hi folks,

Not a lot of mountains to climb here, but several islands to visit in the easter-sea.
When going to Ha Tien, close to the cambodian border, I often take my MTR (or LIR in that case) with me.

This time, we were a party of 6 including my parents, my XYL and my 2 kids.
In five minutes I can have my station up and running from the hotel room on the top of the cliff. The second day we also rented a boat to go cruising in the bay, fishing a little and relaxing on a small island. Once again the MTR was ready in a few minutes.

Some pictures and more details in french on my blog :
http://xv4y.radioclub.asia/

73,
Yan - XV4Y
---
http://www.qscope.org/

11918. RE: Description of the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-28 20:15:41 UTC
From: <wayne.wheeler@...>
Topic: 11708 Message: 11918

Earle-
I'll add my comment to others that you've done a wonderful thing here!! There is a wide range of experience in the group, and folks (like myself) that are just coming up to speed on the technologies involved will gain allot from your effort. I never thought of the MTR as a sort of Elmer project, but I think you've made it just that. Thanks much!!

Wayne
W6AHH

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

Hello Everyone,

Ever since I set out a year ago to learn how transceivers work by building a NorCal40A while reading David Rutledge's "The Electronics of Radio," I have preferred to build kits such as the MTR section by section, testing each section as I complete it before moving on to the next section. Starting back in June with the latest MTR, I followed this method of referring mainly to the schematic, and I made measurements and took photos of the changing printed circuit board and the measurements that I made. One important caveat when building a radio section by section is to read through the entire assembly manual first and note any modifications or discrepancies between the parts list, the assembly instructions, and the schematic in order to ensure proper installation of the components.

I have written a description of the function of each section, and, after getting Steve's Ok, because I felt that it was important that he knew what I was doing, I have uploaded 19 pdfs to a folder labeled AB6WL. I have titled this series of documents "Toward Understanding the MTR: and other Superheterodyne Receivers and Direct Synthesis Transmitters." The word "Toward..." means that I do not yet understand everything completely, but I am working on it. Each section's description is numbered according to the order in which I built it, so that the names of the 19 files are as follows --

1_Power Supply
2_MCU & Display
3_40 MHz Reference Oscillator
4_Direct Digital Synthesizer
5_DDS Local Oscillator Lowpass Filter
6_20m Transmit Lowpass Filter
7_40m Transmit Lowpass Filter
8_20m & 40m Receive Bandpass Filters
9_Transmit Receive MUTE Switch - Part 1
10_Receive RF Mixer
11_Receiver Intermediate Frequency Crystal Filter
12_Product Detector and Beat Frequency Oscillator
13_Receiver Audio Preamplifier
14_Audio Amplifier & Automatic Gain Control
15_Transmit Receive MUTE Switch - Part 2

16_Audio Bandpass Filter
17_Transmit Drivers
18_Finals V+ Shaping & TR Switch - Part 3
19_Finals Transistors Power Amplifier

My suggestion is that you print out the schematic of the MTR on pages 22 &b 23 of the manual so that you can refer to it while reading through my explanations of the different sections. You could even print out the schematics for any of the ATSs on this website, or of the Weber Tribander or PFR-3A on Doug Hendricks' website qrpkits.com to compare the variations in Steve's designs.

Steve's MTR, with both its simplicity and its sophistication on a two-sided printed circuit board smaller than a credit card, presents a great opportunity to understand the various parts of transceivers, especially when it involves classic circuit designs that go back to the beginning of the 20th century and World War I. My hope is that others like myself who are limited in their understanding can benefit from my explanations. I have certainly benefited from trying to explain the MTR, especially the trigonometric relationships of mixer signals described in Section 12 on the Product Detector. Steve has answered questions for me along the way, and I would also welcome from the group any advice on making corrections or clarifications.

73,

Earle
AB6WL

11919. FOX HUNT apps being accepted

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-29 00:32:49 UTC
From: Dale Putnam
Topic: 11919 Message: 11919

Apps are being accepted for the quickly arriving FOX HUNT Season.Please zip right on over to the web page and fill two out.. one for 40 and one for 80.You will really be regrettable, if you don't. http://www.qrpfoxhunt.org
Why let all that fun zip past? Fill one out.. it won't hurt, nor does it cost anything.Good Hunting and good Luck too.!!

Have a great day,

--... ...--
Dale - WC7S in Wy

11920. Paging Steve Weber: Please sell more ATS-3 kits!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 01:01:41 UTC
From: <af8f@...>
Topic: 11920 Message: 11920

Steve Weber, please sell more ATS-3 kits.

I have an ATS-4, and I love it it, but it's too big and heavy for ultralight backpacking.

Thank you,
AF8F

11921. Re: [AT_Sprint] Digest Number 2133

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 14:31:45 UTC
From: Dyarnes
Topic: 11921 Message: 11921

AT SprintHi All,

The ATS-3 is indeed the penultimate backpack radio in my view. However, I would defer to the opinion from folks like Fred Maas, KT5X, about that. The ATS-4 is a significant improvement in ease of operation and features, and not all that much bigger actually, but I can certainly see the appeal of the ATS-3 in certain situations. For one thing, my ATS-3B fits in my shirt pocket! My ATS-4 doesn't, but my usage isn't that demanding. Still, I'm probably as much, or more, likely to grab the ATS-3B, just in case I do want to just stuff it in a pocket.

I'm guessing that Steve could sell both rigs on an ongoing basis if he were so inclined to do so. He certainly hasn't had any problem in the past selling either one. Supply was always substantially below demand. What we don't know is what he has on the drawing board currently—I'm assuming there is something! I don't know about the rest of you, but I'm just sitting here, patiently waiting for Steve's next ingenious offering. Hope one comes along soon!

Dave W7AQK

From: AT_Sprint@yahoogroups.com
Sent: Wednesday, October 30, 2013 6:53 AM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Digest Number 2133

AT Sprint Group 1 New Message Digest #2133 1 Paging Steve Weber: Please sell more ATS-3 kits! by bruce_zip Message
1 Paging Steve Weber: Please sell more ATS-3 kits! Tue Oct 29, 2013 7:05 pm (PDT) . Posted by: bruce_zip Steve Weber, please sell more ATS-3 kits.

I have an ATS-4, and I love it it, but it's too big and heavy for ultralight backpacking.

Thank you,
AF8F Reply to sender . Reply to group . Reply via Web Post . All Messages (1) . Top ^ Visit Your Group > View All Topics > Create New Topic > 4 New Members >
We are making changes based on your feedback, Thank you ! Submit Feedback > The Yahoo! Groups Product Blog Check it out! > CHANGE SETTINGS > TERMS OF USE > UNSUBSCRIBE >

11922. Re: [AT_Sprint] Digest Number 2133

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 16:32:03 UTC
From: Gil G.
Topic: 11921 Message: 11922

Isn't there a new MTR in the pipeline? Three bander, touch keyer and DSP? I love the size of my MTR and would definitely prefer something of the same size.. The last MTR case was great, but a bit thick.. It could have been a third thinner.. In any case, I am definitely waiting for the next MTR!

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Oct 30, 2013, at 10:31 AM, Dyarnes wrote:

>
> Hi All,
>
> The ATS-3 is indeed the penultimate backpack radio in my view. However, I would defer to the opinion from folks like Fred Maas, KT5X, about that. The ATS-4 is a significant improvement in ease of operation and features, and not all that much bigger actually, but I can certainly see the appeal of the ATS-3 in certain situations. For one thing, my ATS-3B fits in my shirt pocket! My ATS-4 doesn’t, but my usage isn’t that demanding. Still, I’m probably as much, or more, likely to grab the ATS-3B, just in case I do want to just stuff it in a pocket.
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> I’m guessing that Steve could sell both rigs on an ongoing basis if he were so inclined to do so. He certainly hasn’t had any problem in the past selling either one. Supply was always substantially below demand. What we don’t know is what he has on the drawing board currently—I’m assuming there is something! I don’t know about the rest of you, but I’m just sitting here, patiently waiting for Steve’s next ingenious offering. Hope one comes along soon!
>
> Dave W7AQK

11923. Re: [AT_Sprint] Digest Number 2133

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 17:02:40 UTC
From: Lee Hiers
Topic: 11921 Message: 11923

On Wed, Oct 30, 2013 at 10:31 AM, Dyarnes <w7aqk@...> wrote:

> The ATS-3 is indeed the penultimate backpack radio in my view. However, I
> would defer to the opinion from folks like Fred Maas, KT5X, about that.
> The ATS-4 is a significant improvement in ease of operation and features,
> and not all that much bigger actually, but I can certainly see the appeal
> of the ATS-3 in certain situations.
>

That's the cool thing about the MTR IMO...two switchable bands, and can be
enclosed in an Altoids tin like the ATS3 if desired...best of both worlds
if you can be happy with two bands.

> I’m guessing that Steve could sell both rigs on an ongoing basis if he
> were so inclined to do so.
>

I'd say that's a pretty safe bet!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

11924. Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 17:43:29 UTC
From: Steven Weber
Topic: 11924 Message: 11924

Isn't there a new MTR in the pipeline? Three bander, touch keyer and DSP? I love the size of my MTR and would definitely prefer something of the same size.. The last MTR case was great, but a bit thick.. It could have been a third thinner.. In any case, I am definitely waiting for the next MTR!

Yeah, I got to start thinking about that soon now that the MBDC rig is pretty much done and gone.

I experimented with the touch keyer and it was a flop. For a keyer were timing is important and also have to generate side tone, adding touch sensing just screws everything up. I came to the conclusion that a seperate chip has to be dedicated for switch sensing to work reliably and not interfer with keyer timing. Maybe I'll design a touch paddle accessory some time which can be added latter.

I'm still debating on the miniDSP chip. It would eliminate most of the analog parts and reduces the background hiss a lot. The problem is, it's an expensive part ~ $7.00 in 100's and can't be hand soldered. So, I'll either have to premount it for you or stop suppling wire solder and make you all get and use solder paste - which isn't too bad an idea, since these boards really should be built that way.

The next question is that of a display. I can get a nice back lited LCD Nokia display from China, cheap. It can display 6 lines of 10 characters and has digits large enough to be easy to see. But at 1.7" square, it is a little large and I won't be able to put parts under it, as it would be soldered to the board to keep the profile low. I can get a much smaller LCD display at much higher cost, but the characters are pretty tiny too. Or I can stick with the single digit LED display, which is better then nothing. Maybe see if I can fit the next larger sized digit on the board.

Knob tuning? I'm still a little leary of this. The main issue is the protruding knob. Maybe I should buy one of those new low cost 3D printers and print my own low profile knobs and button caps for the TACK switches. Could probably print boxes too - hell there's an idea...

Speaking of boxes, the MTR box did turn out a little too tall and heavy. But then, a lot of you asked for a bullet proof box, so there you go. Discounting the rubber bumper feet, it's only 0.4" taller than an Altoids tin, but that extra 0.4" does mess up the proportions. So I guess next time I'll have it made a bit flater, along the lines of the ATS-4 boxes.

So, those are the thoughts I have now.

72, Steve KD1JV

11925. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 18:06:55 UTC
From: Kevin Kleinfelter
Topic: 11924 Message: 11925

Speaking as an audience of one, a $7 difference in cost isn't going to make an iota of difference in my ability to afford a kit -- nor will it impact the XYL permission to buy. ;-) If a $7 part has significantly better characteristics, I'd say "Go for it." (If you're considering adding 100 of them to the design, that might impact.)
Kevin / K4KPK

On Wed, Oct 30, 2013 at 1:43 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> **
> Isn't there a new MTR in the pipeline? Three bander, touch keyer and DSP?
> I love the size of my MTR and would definitely prefer something of the same
> size.. The last MTR case was great, but a bit thick.. It could have been a
> third thinner.. In any case, I am definitely waiting for the next MTR!
>
> Yeah, I got to start thinking about that soon now that the MBDC rig is
> pretty much done and gone.
>
> I experimented with the touch keyer and it was a flop. For a keyer were
> timing is important and also have to generate side tone, adding touch
> sensing just screws everything up. I came to the conclusion that a seperate
> chip has to be dedicated for switch sensing to work reliably and not
> interfer with keyer timing. Maybe I'll design a touch paddle accessory some
> time which can be added latter.
>
> I'm still debating on the miniDSP chip. It would eliminate most of the
> analog parts and reduces the background hiss a lot. The problem is, it's an
> expensive part ~ $7.00 in 100's and can't be hand soldered. So, I'll either
> have to premount it for you or stop suppling wire solder and make you all
> get and use solder paste - which isn't too bad an idea, since these boards
> really should be built that way.
>
> The next question is that of a display. I can get a nice back lited LCD
> Nokia display from China, cheap. It can display 6 lines of 10 characters
> and has digits large enough to be easy to see. But at 1.7" square, it is a
> little large and I won't be able to put parts under it, as it would be
> soldered to the board to keep the profile low. I can get a much smaller LCD
> display at much higher cost, but the characters are pretty tiny too. Or I
> can stick with the single digit LED display, which is better then nothing.
> Maybe see if I can fit the next larger sized digit on the board.
>
> Knob tuning? I'm still a little leary of this. The main issue is the

> protruding knob. Maybe I should buy one of those new low cost 3D printers
> and print my own low profile knobs and button caps for the TACK switches.
> Could probably print boxes too - hell there's an idea...
>
> Speaking of boxes, the MTR box did turn out a little too tall and heavy.
> But then, a lot of you asked for a bullet proof box, so there you go.
> Discounting the rubber bumper feet, it's only 0.4" taller than an Altoids
> tin, but that extra 0.4" does mess up the proportions. So I guess next time
> I'll have it made a bit flater, along the lines of the ATS-4 boxes.
>
> So, those are the thoughts I have now.
>
> 72, Steve KD1JV
>
>
>
>
>
>
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11926. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 18:10:52 UTC
From: Gil G.
Topic: 11924 Message: 11926

Hello Sir,

Here are my thoughts on these ideas:

The cost of having the DSP chip pre-soldered could be taken care of my having buyers put say $10 or more down to reserve their MTR…

The last MTR was pretty darn near perfect. An LCD display doesn't add any functionality but does add complexity and fragility. Three single-digit LED would be great, like Elecraft does on the KX1, but really, one is just fine.

Knobs are too big.

Hard to believe that the MTR case was only .4" taller than an Altoids tin.. It just seems much thicker. That said, it is bullet proof and I would very much like the same steel gauge, just a tad thinner. With a BNC, not an RCA for the antenna.

I use a KX3 and the MTR… If I had to get rid of one, the KX3 would get the boot, though it is an awesome radio, but the MTR is just perfect for what I like to do.

Thank you so much for making those jewels.

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Oct 30, 2013, at 1:43 PM, Steven Weber wrote:

> The next question is that of a display. I can get a nice back lited LCD Nokia display from China, cheap. It can display 6 lines of 10 characters and has digits large enough to be easy to see. But at 1.7" square, it is a little large and I won't be able to put parts under it, as it would be soldered to the board to keep the profile low. I can get a much smaller LCD display at much higher cost, but the characters are pretty tiny too. Or I can stick with the single digit LED display, which is better then nothing. Maybe see if I can fit the next larger sized digit on the board.

11927. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 19:51:28 UTC
From: Lee Hiers
Topic: 11924 Message: 11927

On Wed, Oct 30, 2013 at 2:10 PM, Gil G. <gil@...> wrote:

> With a BNC, not an RCA for the antenna.
>

My MTR has a BNC jack. Pretty easy mod, even for a mechanical klutz such as me.
No, it's not a D-shaped hole like it should be for all the BNC jacks I've seen, but the round hole I'm using does fine with the jack snugged up tight.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

11928. reminder for Morse code stations on saturday

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 19:52:25 UTC
From: James Fehling
Topic: 11928 Message: 11928

just a reminder that the club is supplying morse code stations for the boy scouts and there civil war retreat this saturday from 9-4 at shiff scout camp in baiting hallow. everyone is more tha welcome to come down and help out. hope to see you there

--
James Fehling Jr
N2JFD
Vice President
Suffolk County Radio Club
Education and Testing Coordinator, VE Liaison
SkyWarn Spotter 10-183, 10-10 #76060, NAQCC #6021
www.suffolkcountyradioclub.org

11929. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 19:57:21 UTC
From: Gil G.
Topic: 11924 Message: 11929
Attachments: 1 described; binary payloads are missing from this source WARC

On Wed, 2013-10-30 at 15:51 -0400, Lee Hiers wrote:
> On Wed, Oct 30, 2013 at 2:10 PM, Gil G. <gil@...> wrote

> With a BNC, not an RCA for the antenna.

> My MTR has a BNC jack. Pretty easy mod, even for a mechanical klutz
> such as me.

Yep, I did that as well..

Gil.

11930. RE: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 22:22:27 UTC
From: William Schmidt
Topic: 11924 Message: 11930

Just some thoughts about the MTR.
1. A touch keyer will require both a modification of both the board and the box. One idea, however, would be to supply the holes so that a multipin connector can be installed to plug in the board later.

2. A four digit LED readout like you have on the digital dial would be nice and not too big.

3. For a tuning dial, can you use a side wheel like you used on the ATS4 volume control?

4. The miniDSP sounds cool but would it do more than an audio filter?

Bill, WV1N

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@...
Date: Wed, 30 Oct 2013 13:43:29 -0400
Subject: [AT_Sprint] Next generation of the MTR...

Isn't there a new MTR in the pipeline? Three bander,
touch keyer and DSP? I love the size of my MTR and would definitely prefer
something of the same size.. The last MTR case was great, but a bit thick.. It
could have been a third thinner.. In any case, I am definitely waiting for the
next MTR!

Yeah, I got to start thinking about that soon now
that the MBDC rig is pretty much done and gone.

I experimented with the touch keyer and it was a
flop. For a keyer were timing is important and also have to generate side tone,
adding touch sensing just screws everything up. I came to the conclusion
that a seperate chip has to be dedicated for switch sensing to work
reliably and not interfer with keyer timing. Maybe I'll design a touch paddle
accessory some time which can be added latter.

I'm still debating on the miniDSP chip. It would
eliminate most of the analog parts and reduces the background hiss a lot. The
problem is, it's an expensive part ~ $7.00 in 100's and can't be hand soldered.
So, I'll either have to premount it for you or stop suppling wire solder and
make you all get and use solder paste - which isn't too bad an idea, since these
boards really should be built that way.

The next question is that of a display. I can get a
nice back lited LCD Nokia display from China, cheap. It can display 6 lines of
10 characters and has digits large enough to be easy to see. But at 1.7" square,
it is a little large and I won't be able to put parts under it, as it would be
soldered to the board to keep the profile low. I can get a much smaller LCD

display at much higher cost, but the characters are pretty tiny too. Or I can stick with the single digit LED display, which is better then nothing. Maybe see if I can fit the next larger sized digit on the board.

Knob tuning? I'm still a little leary of this. The
main issue is the protruding knob. Maybe I should buy one of those new low cost 3D printers and print my own low profile knobs and button caps for the TACK switches. Could probably print boxes too - hell there's an idea...

Speaking of boxes, the MTR box did turn out a
little too tall and heavy. But then, a lot of you asked for a bullet proof box, so there you go. Discounting the rubber bumper feet, it's only 0.4" taller than an Altoids tin, but that extra 0.4" does mess up the proportions. So I guess next time I'll have it made a bit flater, along the lines of the ATS-4 boxes.

So, those are the thoughts I have now.

72, Steve KD1JV

11931. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 22:28:21 UTC
From: Hank Greeb
Topic: 11924 Message: 11931

While we're dreaming, how about a MTR with all the functionality of an Elecraft KX3 but power consumption of <35 ma on receive, and fit in an Altoids Tin?

Might as well dream small/big.

72/73 de n8xx Hg
QRP >99.44% of the time

11932. MBDC is partially alive.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 04:46:27 UTC
From: <k7dd@...>
Topic: 11932 Message: 11932

I have a "Fernando" radio. Billy Crystals character, whos famous line: "Its not who you are but what you look like, and you look marvelous!" describes my MBDC radio to a tee. Looks nice, fairly clean layout, backlight works, BUT it no play. No readout, no receiver.
Voltages to various points look ok, 4.89 vdc and 8.91 vdc with 13.2 vdc at the power plug.
I am sort of at a loss as I don't know what to check next. I will go over all the parts one by one to confirm I didn't make a goof even though I did that twice before it went into the cabinet and I found a pair of resistor mistooks (22K and 220K are quite different).
Any suggestions would be a great help. Test equip is a VOM, watt meter, and if I drag it in from the garage, a 100Mhz Scope.
Thanks
Mike Baker K7DD

11933. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 05:37:57 UTC
From: Håkan Olsson
Topic: 11924 Message: 11933

Referring to my own experience (http://hem.bredband.net/b101180/In%20the%20field.html) here?s some thoughts about the next generation of the MTR.

Skipping the touch-keyer was a good thing. The number one priority for any keyer used in the field is that it can handle dirty, wet and damp conditions and, most important, that you can fix/service it with simple tools like a pen-knife. The AME Porta-Paddle II sure is not the best keyer in the world but it sure is better than the Begali for field use!

Three bands? Quite enough! 80, 40 and 30 meters for us on the other side of the Big Pond.

Display? During SOTA operations, for which the MTR is intended, you usually stay on one frequency. You seldom scan frequencies. You are the DX. In spite of that comparing the ATS-3B.1 with the ATS-4 series and being able to see the frequency sure adds to the ergonomics and your feeling of security. Would willingly pay extra for that!

MiniDSP chip? Why not? If it includes AGC, band pass filtering, sidetone generation (with level control), electronic volume control and headphone driver. We all have to follow the times and the new trends. If it reduces the component count and make the construction more simple and even make it more rugged, a few extra dollars would not matter. If it have to be pre-mounted, so be it!

And yes, AGC is VERY, VERY important! Particularly for SOTA and SMFF operations when you are in the middle of a pile-up.

Tuning knob? I would say yes even if it would cost extra! But why does it have to protrude? A wheel on the side like the volume on the ATS-4 series would be much better. The crux is to find a counter small/low enough so that the enclosure would not be to thick.

A way to more reliably adjust the output power to exactly 5 watts would be nice. Some way to reduce the power independently of the voltage would be even nicer, even if you have to open the box to do it.

I can understand your desire to keep the price below the 200 dollar range, but don?t worry, aim to keep it below the 300 dollar range instead. Few will complain, trust me!

H?kan / SM6EQO

11934. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 05:53:05 UTC
From: Gil G.
Topic: 11924 Message: 11934

What would be great is short-wave listening, but only if it doesn't increase the size of the radio, which ideally would still be Altoids-sized or close..

Gil.

11935. RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 22:35:11 UTC
From: <hauntedmesa@...>
Topic: 11924 Message: 11935

At the present rate of growth, forget the KX3, feature creep will get it to K3 features, w/panadapter in a few days...

ken - wa4mnt

---In at_sprint@yahoogroups.com, <n8xx@...> wrote:

While we're dreaming, how about a MTR with all the functionality of an Elecraft KX3 but power consumption of <35 ma on receive, and fit in an Altoids Tin?

Might as well dream small/big.

72/73 de n8xx Hg
QRP >99.44% of the time

11936. RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 22:02:55 UTC
From: <reesemn@...>
Topic: 11924 Message: 11936

Speaking of 3D printers, mine should be done this weekend. If you're really interested in doing parts and don't want to buy/build a printer, maybe we can work out a trade...parts for a kit or two. Maybe do the cases separately so people can get customized cases (I.e. light, heavy duty, add your call sign, etc).

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

Isn't there a new MTR in the pipeline? Three bander, touch keyer and DSP? I love the size of my MTR and would definitely prefer something of the same size.. The last MTR case was great, but a bit thick.. It could have been a third thinner.. In any case, I am definitely waiting for the next MTR!

Yeah, I got to start thinking about that soon now that the MBDC rig is pretty much done and gone.

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Knob tuning? I'm still a little leary of this. The main issue is the protruding knob. Maybe I should buy one of those new low cost 3D printers and print my own low profile knobs and button caps for the TACK switches. Could probably print boxes too - hell there's an idea...

Speaking of boxes, the MTR box did turn out a little too tall and heavy. But then, a lot of you asked for a bullet proof box, so there you go. Discounting the rubber bumper feet, it's only 0.4" taller than an Altoids tin, but that extra 0.4" does mess up the proportions. So I guess next time I'll have it made a bit flater, along the lines of the ATS-4 boxes.

So, those are the thoughts I have now.

72, Steve KD1JV

11937. RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-30 21:42:26 UTC
From: <reesemn@...>
Topic: 11924 Message: 11937

Actually, I was going to mention that my 3D printer is almost done (probably by this weekend). If you're interested in doing 3D printed parts/cases, maybe we can work out a trade of parts for a kit or two. Maybe do cases separately and then I can do custom designs for an added fee.

11938. Re: [AT_Sprint] RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 11:14:46 UTC
From: Alan Dove
Topic: 11924 Message: 11938

Steve:

1. Please don't 3D print the case. I know all the cool kids are into 3D printers now, but these devices have some serious limitations. The plastic they extrude isn't very durable, and they don't print fast enough for even small-scale production runs. They're for prototyping things with weird shapes, not banging out boxes that need to survive in backpacks. A rectangular metal case is what the MTR needs.

2. A $7 - or even $20 - price hike isn't going to change anyone's purchase decision on these things. A little more cash for a friendlier interface seems like a good deal to me.

3. Make it as small as possible, but no smaller.

4. Include a pony.

- Alan (N3IMU)

Alan Dove, Ph.D.
917.273.0544
alandove.com

11939. RE: Re: [AT_Sprint] RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 13:39:51 UTC
From: <reesemn@...>
Topic: 11924 Message: 11939

I disagree about the durability of 3D printed items. That depends on the filament used (there are some pretty durable plastics), the design of the case, and the print settings (i.e. % fill).

The speed is definitely an issue. I'd guess that I could probably print 3 or 4 cases at a time, top and bottom. If I averaged one run a day (I do have a life), it would take about a month to make 100 cases. However, doing something like a knob or thumbwheel, I could probably print a lot of them in one run and could probably knock it out in a week.

BTW, I despise Yahoo Groups. I posted one response yesterday, waited a while, and still didn't see that it actually posted. So I posted again. A few hours later, it's still not up. Was going to try again this morning and found that they both posted. Why does it take several hours to post something? It's instantaneous on good forums. Sorry for the rant, I just really really HATE Yahoo Groups. Too bad most Ham radio users seem to love them.

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

Steve:

1. Please don't 3D print the case. I know all the cool kids are into 3D printers now, but these devices have some serious limitations. The plastic they extrude isn't very durable, and they don't print fast enough for even small-scale production runs. They're for prototyping things with weird shapes, not banging out boxes that need to survive in backpacks. A rectangular metal case is what the MTR needs.

2. A $7 - or even $20 - price hike isn't going to change anyone's purchase decision on these things. A little more cash for a friendlier interface seems like a good deal to me.

3. Make it as small as possible, but no smaller.

4. Include a pony.

- Alan (N3IMU)

Alan Dove, Ph.D.
917.273.0544
alandove.com http://alandove.com

11940. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 14:01:12 UTC
From: John D'Ausilio
Topic: 11924 Message: 11940

I've been printing boxes for stuff for a year now :) Knobs not a real problem either. I was printing 10GHz horns last fall, covered with foil they work just as well as metal!

If you've got some ideas I'd be happy to prototype some stuff for you, my printer has been idle for a while ..

de w1rt/john

On Wed, Oct 30, 2013 at 1:43 PM, Steven Weber <steve.kd1jv@...> wrote:

> **
>
>
> Isn't there a new MTR in the pipeline? Three bander, touch keyer and DSP?
> I love the size of my MTR and would definitely prefer something of the same
> size.. The last MTR case was great, but a bit thick.. It could have been a
> third thinner.. In any case, I am definitely waiting for the next MTR!
>
> Yeah, I got to start thinking about that soon now that the MBDC rig is
> pretty much done and gone.
>
> I experimented with the touch keyer and it was a flop. For a keyer were
> timing is important and also have to generate side tone, adding touch
> sensing just screws everything up. I came to the conclusion that a seperate
> chip has to be dedicated for switch sensing to work reliably and not
> interfer with keyer timing. Maybe I'll design a touch paddle accessory some
> time which can be added latter.
>
> I'm still debating on the miniDSP chip. It would eliminate most of the
> analog parts and reduces the background hiss a lot. The problem is, it's an
> expensive part ~ $7.00 in 100's and can't be hand soldered. So, I'll either
> have to premount it for you or stop suppling wire solder and make you all
> get and use solder paste - which isn't too bad an idea, since these boards
> really should be built that way.
>
> The next question is that of a display. I can get a nice back lited LCD
> Nokia display from China, cheap. It can display 6 lines of 10 characters
> and has digits large enough to be easy to see. But at 1.7" square, it is a
> little large and I won't be able to put parts under it, as it would be
> soldered to the board to keep the profile low. I can get a much smaller LCD
> display at much higher cost, but the characters are pretty tiny too. Or I
> can stick with the single digit LED display, which is better then nothing.
> Maybe see if I can fit the next larger sized digit on the board.
>
> Knob tuning? I'm still a little leary of this. The main issue is the

> protruding knob. Maybe I should buy one of those new low cost 3D printers
> and print my own low profile knobs and button caps for the TACK switches.
> Could probably print boxes too - hell there's an idea...
>
> Speaking of boxes, the MTR box did turn out a little too tall and heavy.
> But then, a lot of you asked for a bullet proof box, so there you go.
> Discounting the rubber bumper feet, it's only 0.4" taller than an Altoids
> tin, but that extra 0.4" does mess up the proportions. So I guess next time
> I'll have it made a bit flater, along the lines of the ATS-4 boxes.
>
> So, those are the thoughts I have now.
>
> 72, Steve KD1JV
>
>
>
>
>
>
>
>
>

11941. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 14:47:12 UTC
From: Alan Dove
Topic: 11924 Message: 11941

Hey, folks:

I never said you couldn't print boxes with a 3D printer. Of course people do it all the time. That doesn't make it the optimum solution for every box-related problem. You can also drive nails with a torque wrench, but if you have access to a hammer it's a much better choice.

--Alan (N3IMU)

--
Alan Dove, Ph.D.
Web: turbidplaque.com
Phone: 917.273.0544
Skype: alandove
Twitter: @alandove

11942. RE: Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 14:52:12 UTC
From: <john.evans.n0hj@...>
Topic: 11924 Message: 11942

It is said that when the only tool you have at your disposal is a hammer, every problem looks like a nail.

72 - john - n0hj

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

Hey, folks:

I never said you couldn't print boxes with a 3D printer. Of course people do it all the time. That doesn't make it the optimum solution for every box-related problem. You can also drive nails with a torque wrench, but if you have access to a hammer it's a much better choice.

--Alan (N3IMU)

--
Alan Dove, Ph.D.
Web: turbidplaque.com
Phone: 917.273.0544
Skype: alandove
Twitter: @alandove

11943. Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 15:09:21 UTC
From: cloud runner
Topic: 11924 Message: 11943

I speak from the position of 1,800 SOTA Activation points. I find myself largely in agreement with others ...

* dont want a touch paddle in the field, or anywhere else for that matter. (On SOTA's I use a homebrew paddle that weighs six grams and mounts inside the radio case, sliding out for use).

* don't care about a tuning knob

* ambivalent about additional LED digits, small LCD screen more interesting, but not necessary.

* bands ... my band use based upon total SOTA QSO's are in this order; 20M, 40M, then of much lower interest 30M, and way down are 17 and 15 (because before much timepasses these bands will rarely open for years to come). This is a daytime field radio for me, never operated 80M on a SOTA peak, but glad to have the band in the ATS4.

but with these different wishes:

* Speaker: I found on eBay for six bux including shipping a very small amplified speaker, and i love to use it! Ear buds are forever falling out of one ear or the other, plus the endless minor annoyance of untangling the wires each time I take them out for use, plus many times I can not hear because of wind. The speaker with internal battery weighs just an ounce and a half, comes with its own power which runs it for several hours. It is recharged from a USB port on the computer. Inside is a lion button battery and a circuit board to control voltage and amplify.

http://www.ebay.com/itm/Mini-Hamburger-Stereo-Speaker-Music-Player-for-iPhone-iPod-PC-Laptop-Black-MP3-/310649285359?pt=US_Audio_Docks_Mini_Speakers&hash=item485423eaef

My greatest want would be to have a speaker like this internal with the radio. I can imagine the speaker being activated by the jack such that IF you have a headfone plugged in, the speaker is off. The speaker and circuit board separated from case might weigh less than a half an ounce, same as a set of earbuds. When on, it could be powered by the same battery running the radio. Power drain must be small to run for two hours from an internal button battery, and non-existent if the operator elects earbuds instead.

It could be a daughter board stacked in the case, rather than on the radio board, I think it could be able to fit. It occurs to me that it could be a separate kit, and it surely would fit easily inside the MTR ver 2 case!

* Voltage control ... I have a voltage controlling switch that I use with my MTR and ATS4. Purpose is to turn the power down during tune up. It would be super cool if the menu "tune" mode automatically reduced power out making such a voltage switch redundant.

Overall, this is a great rig as is. It is very sensitive. I work people that monitoring stations say they can't hear. Keying is excellent, QSK is wonderful, AGC action is pretty good and good enough. It is resistant to IMD enough that a KX3 operating 50 yards and three

khz away is tolerable. Two bands, 20/40 is fine for me. I don't need a knob and I don't need the LCD screen or extra digits.

73 fred - kt5x (aka WS0TA)

----- Original Message -----
From: Håkan Olsson
To: AT_Sprint@yahoogroups.com
Sent: Wednesday, October 30, 2013 11:37 PM
Subject: Re: [AT_Sprint] Next generation of the MTR...

Referring to my own experience (http://hem.bredband.net/b101180/In%20the%20field.html) here´s some thoughts about the next generation of the MTR.

Skipping the touch-keyer was a good thing. The number one priority for any keyer used in the field is that it can handle dirty, wet and damp conditions and, most important, that you can fix/service it with simple tools like a pen-knife. The AME Porta-Paddle II sure is not the best keyer in the world but it sure is better than the Begali for field use!

Three bands? Quite enough! 80, 40 and 30 meters for us on the other side of the Big Pond.

Display? During SOTA operations, for which the MTR is intended, you usually stay on one frequency. You seldom scan frequencies. You are the DX. In spite of that comparing the ATS-3B.1 with the ATS-4 series and being able to see the frequency sure adds to the ergonomics and your feeling of security. Would willingly pay extra for that!

MiniDSP chip? Why not? If it includes AGC, band pass filtering, sidetone generation (with level control), electronic volume control and headphone driver. We all have to follow the times and the new trends. If it reduces the component count and make the construction more simple and even make it more rugged, a few extra dollars would not matter. If it have to be pre-mounted, so be it!

And yes, AGC is VERY, VERY important! Particularly for SOTA and SMFF operations when you are in the middle of a pile-up.

Tuning knob? I would say yes even if it would cost extra! But why does it have to protrude? A wheel on the side like the volume on the ATS-4 series would be much better. The crux is to find a counter small/low enough so that the enclosure would not be to thick.

A way to more reliably adjust the output power to exactly 5 watts would be nice. Some way to reduce the power independently of the voltage would be even nicer, even if you have to open the box to do it.

I can understand your desire to keep the price below the 200 dollar range, but don´t worry, aim to keep it below the 300 dollar range instead. Few will complain, trust me!

Håkan / SM6EQO

11944. Re: [AT_Sprint] MBDC is partially alive.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 16:38:14 UTC
From: Steven Weber
Topic: 11932 Message: 11944

The only thing I can think of is make sure the processor is plugged in the correct way. (The power pins are set up so there is no damage if inserted backwards).

When you turn up the LCD contrast control, do you see 16 black boxes across the top line?

If you try transmitting (might be a good idea to remove the PA choke toroid before you do this) do you hear side tone? (that would let you know if the processor is doing something)

Check the wiring to the tuning encoder - a short to ground on one of the switch outputs could lead to a "stuck switch" condition which hangs up the processor.

Steve KD1JV

I have a "Fernando" radio. Billy Crystals character, whos famous line: "Its not who you are but what you look like, and you look marvelous!" describes my MBDC radio to a tee. Looks nice, fairly clean layout, backlight works, BUT it no play. No readout, no receiver. Voltages to various points look ok, 4.89 vdc and 8.91 vdc with 13.2 vdc at the power plug.

11945. Re: Re: [AT_Sprint] RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 16:43:30 UTC
From: Steven Weber
Topic: 11924 Message: 11945

BTW, I despise Yahoo Groups.

Yeah, I find the new format a bit confusing and how to log in is not obvious. They try to make you a full time yahoo user. It works best as just an email reflector.

I've been thinking of starting an alturnative group on google, anyone with experiance there and can we still share files?

Steve KD1JV

11946. Re: [AT_Sprint] Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 16:51:42 UTC
From: Kevin Kleinfelter
Topic: 11924 Message: 11946

Since we've entered a discussion on the MTR's niche...

I have a KX3. It's a really nice field radio, except it's the size and weight of a brick. No point in competing with the KX3 (unless you can fit it in an Altoids tin!)

Since I don't have an MTR yet, I've looked at other tiny, light field radios, such as http://www.qrpme.com/. Compared to the MTR, they lack power, performance, and efficiency.

MTR offers 5W power, top-notch performance (receive sensitivity, good transmitted signal), multiple bands, power efficient operation in a tiny, lightweight package. That's its appeal. After that, I say, "Whatever makes it fun for Steve to design and kit," because that's what will make the next one happen!
Kevin / K4KPK

11947. Re: [AT_Sprint] Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 17:34:21 UTC
From: Steven Weber
Topic: 11924 Message: 11947

Okay, some good ideas to be considered.

Fred, I don't think I could squeeze in a speaker and keep the box small. At least not if we try going back to a shallower box. I have a small, low profile speaker I think will fit into the bottom of the MTR case, I'll have to give that a try and see how it sounds.

Voltage control would be nice. That's something which has been in the back of my mind for some time, but haven't hit on a good way to implement it yet. There are a couple of minor issues, like how to control the voltage and the possible need for heat sinking. I need a processor with built in D/A.

I wish someone made a side adjust, thumb wheel like encoder like the transistor radio volume control used in the ATS-4's. That would be the best solution.

The main problem with the miniDSP is that it needs a lot of data to be loaded into it, at least 4K bytes worth. Most of that are the DSP instructions and data, which has to be changed if different filters are to be implemented. Since I have to pretty much enter all that data manually into the assembler, I want to keep it as simple as possible.

Other things, like setting the master volume and switching the side tone in and out is pretty straight forward. AGC is a function which is built in.

I guess it time to start doing R+D...

72, Steve KD1JV

11948. Re: [AT_Sprint] Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 17:57:54 UTC
From: Lee Hiers
Topic: 11924 Message: 11948

On Thu, Oct 31, 2013 at 1:34 PM, Steven Weber <steve.kd1jv@...>wrote:

>

> I wish someone made a side adjust, thumb wheel like encoder like the
> transistor radio volume control used in the ATS-4's. That would be the best
> solution.
>

Couldn't you use a pot as a voltage divider to feed an analog input on the microprocessor and use that to control frequency? I suppose the frequency range would be pretty limited with a standard thumbwheel pot though....perhaps several selectable ranges?? A multi-turn thumbwheel pot would work pretty well, but it's probably about as likely to find that as a thumbwheel encoder!

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

11949. Re: [AT_Sprint] Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 18:00:17 UTC
From: TJ Campie
Topic: 11924 Message: 11949

Do they not exist?
http://www.digikey.com/product-detail/en/EVQ-WK4001/P13382S-ND/412477

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
http://W0EA.us
Because QRO is too easy

On Thu, Oct 31, 2013 at 12:57 PM, Lee Hiers <lee.hiers@...> wrote:

> **
>
>
> On Thu, Oct 31, 2013 at 1:34 PM, Steven Weber <steve.kd1jv@...>wrote:
>
>>
>
>> I wish someone made a side adjust, thumb wheel like encoder like the
>> transistor radio volume control used in the ATS-4's. That would be the best
>> solution.
>>
>
> Couldn't you use a pot as a voltage divider to feed an analog input on the
> microprocessor and use that to control frequency? I suppose the frequency
> range would be pretty limited with a standard thumbwheel pot
> though....perhaps several selectable ranges?? A multi-turn thumbwheel pot
> would work pretty well, but it's probably about as likely to find that as a
> thumbwheel encoder!
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your QRP DXCC totals to www.qrpdx.com!
>
>
>

11950. MBDC power supply question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 19:24:18 UTC
From: Hank Greeb
Topic: 11932 Message: 11950

Will the 160/80 rig run on 9 volts (Nominal, 10.8 v fully charged?) I have a bank of 8 NiMH cells which I use for my AT-Sprint, and it runs nice and cool at 9 volts.

Please advise.

72/73 de n8xx Hg
QRP >99.44% of the time

On 10/31/2013 12:46 AM, k7dd@... wrote:
> 13.2 vdc at the power plug.

11951. New MTR plans

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-10-31 23:53:14 UTC
From: wmorrill@...
Topic: 11951 Message: 11951
Attachments: 2 described; binary payloads are missing from this source WARC

```
---------------------------- Original Message ----------------------------
Subject: Returned mail: see transcript for details
From: "Mail Delivery Subsystem" <MAILER-DAEMON@...>
Date: Thu, October 31, 2013 3:16 pm
To: wmorrill@...
--------------------------------------------------------------------------

The original message was received at Thu, 31 Oct 2013 15:16:28 -0600
from localhost.localdomain [127.0.0.1]

----- The following addresses had permanent fatal errors -----
<AT_Sprint@...>
(reason: 554 delivery error: dd This user doesn't have a yahoo.com
account (at_sprint@...) [0] - mta1150.mail.ne1.yahoo.com)

----- Transcript of session follows -----
... while talking to mta6.am0.yahoodns.net.:
>>> DATA
<<< 554 delivery error: dd This user doesn't have a yahoo.com account
(at_sprint@...) [0] - mta1150.mail.ne1.yahoo.com
554 5.0.0 Service unavailable
```

11952. Re: [AT_Sprint] MBDC power supply question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 04:45:09 UTC
From: Steven Weber
Topic: 11932 Message: 11952

Will the 160/80 rig run on 9 volts (Nominal, 10.8 v fully charged?) I have a bank of 8 NiMH cells which I use for my AT-Sprint, and it runs nice and cool at 9 volts.

N0, the miminum voltage is 11 volts. Most of the stuff runs off a 9V regulator and that needs 2 volts of head room to operate. Due to the high receive current (125 ma), I would recommend a moderate sized gell cell if you want to run this one off batteries.

Steve KD1JV

11953. RE: [AT_Sprint] MBDC is partially alive.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 05:19:43 UTC
From: Mike Baker
Topic: 11932 Message: 11953

One step closer.

I have a display that says 125.000000 CAL.

Tuning knob still does nada but I will check the wiring again on Friday.

No side tone, no tx.

The DDS board is plugged in exactly as the picture indicates and the red LED is bright.

I assume the processor you are referring to is the large chip under the end of the DDS board. It is in the correct way. Notch to the right under the DDS. All chips checked for proper location and orientation.

Up for round two.

Mike Baker K7DD

<mailto:K7dd@...> K7dd@...

All QSO's are uploaded to LOTW.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Thursday, October 31, 2013 9:38 AM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MBDC is partially alive.

□

The only thing I can think of is make sure the processor is plugged in the correct way. (The power pins are set up so there is no damage if inserted backwards).

When you turn up the LCD contrast control, do you see 16 black boxes across the top line?

If you try transmitting (might be a good idea to remove the PA choke toroid before you do this) do you hear side tone? (that would let you know if the processor is doing something)

Check the wiring to the tuning encoder - a short to ground on one of the switch outputs could lead to a "stuck switch" condition which hangs up the processor.

Steve KD1JV

I have a "Fernando" radio. Billy Crystals character, whos famous line: "Its not who you are but what you look like, and you look marvelous!" describes my MBDC radio to a tee. Looks nice, fairly clean layout, backlight works, BUT it no play. No readout, no receiver. Voltages to various points look ok, 4.89 vdc and 8.91 vdc with 13.2 vdc at the power plug.

11954. Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 07:12:47 UTC
From: Yan
Topic: 11924 Message: 11954

Hi Steve, folks,

Just about the screen.
Like Gil I am not sure of the added value of bigger display.
That said the "Nokia 5110"-like display modules are great. A bit expensive compared to 16x2 HD44840 displays, but much more versatile.
THe problem I had with them is a big variation in quality in the same lot.
I bought around 50 of them and 5 were not working, 5 otters showing troubles.
The problem is that they are designed to be installed pressed again a PCB.
The chinese suppliers built a PCB and a metal frame to sold it as a "module". However, I found that mechanical stability is very bad and with bad contacts the resistance increase bringing malfunctioning of the displays.
All in all still a good deal, but take care...

> The next question is that of a display. I can get a nice back lited LCD Nokia display from China, cheap. It can display 6 lines of 10 characters and has digits large enough to be easy to see. But at 1.7" square, it is a little large and I won't be able to put parts under it, as it would be soldered to the board to keep the profile low. I can get a much smaller LCD display at much higher cost, but the characters are pretty tiny too. Or I can stick with the single digit LED display, which is better then nothing. Maybe see if I can fit the next larger sized digit on the board.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

11955. RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 11:59:17 UTC
From: <srmaietta@...>
Topic: 11924 Message: 11955

My thoughts/opinions to add to the MTR evolution discussion...

The screen issue -what do we need it for again?? Digital noise, flaky contacts, added current draw, all for the ability to display...? If we needed to display information you could use a couple of small LED's poking through the case, a momentary button that turns on the light show so you can see what's lit up and then know your settings. When they're off, there is no current being used, no PWM noise etc etc.. The paddle controls the settings.

For the MTR, the ultimate expression of an ultralight micro transceiver, I think a display doesn't quite fit. I know Steve and other talented designers could work magic with a DSP and a display, but maybe reserve it for a more PFR-esque type of rig.

The only thing driving the MTR design should be "How can I make lugging a radio xcvr to the top of this hill less of a strain on the hiker while continuing to offer (and improve upon) great transceive performance.?" So the MTR, if anything, should get smaller and lighter. If it has to have more bells and whistles then perhaps a built in tuner and battery pack. (Less stuff for the hiker to carry). As far as batteries, it should be designed around a Lipo or Lion 7.4v pack. Anything else and the size grows and grows. We can handle spending the extra for the charger.

W2STV clear

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

Hi Steve, folks,

Just about the screen.
Like Gil I am not sure of the added value of bigger display.
That said the "Nokia 5110"-like display modules are great. A bit expensive compared to 16x2 HD44840 displays, but much more versatile.
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73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/ http://xv4y.radioclub.asia/
http://varc.radioclub.asia/ http://varc.radioclub.asia/

11956. Re: [AT_Sprint] RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 13:56:26 UTC
From: Lee Hiers
Topic: 11924 Message: 11956

On Fri, Nov 1, 2013 at 7:59 AM, <srmaietta@...> wrote:

> The screen issue -what do we need it for again?? Digital noise, flaky
> contacts, added current draw, all for the ability to display...?
>
I agree that the display isn't all that necessary, but it does provide some
convenience . I built my ATS-3b "upside down" so as to show off the lid -
I just open the lid to push the buttons to control the rig - the CW
annunciations are fine...everyone operating these rigs knows Morse! ;-)

See: http://www.aa4ga.com/2012/04/steve-webers-ats-3b.html

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

11957. RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 14:17:16 UTC
From: <K2QPN@...>
Topic: 11924 Message: 11957

For me, a display of some flavor is very helpful. At east to display frequency. I would like the new rig to be smaller than my ATS4 and band switching. Two band 20/40 or three band 20/30/40 would be good. Pre made case is a big plu - I suck at the metal work. The big driver for me is the smaller size.

73 Bob K2QPN

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

Isn't there a new MTR in the pipeline? Three bander, touch keyer and DSP? I love the size of my MTR and would definitely prefer something of the same size.. The last MTR case was great, but a bit thick.. It could have been a third thinner.. In any case, I am definitely waiting for the next MTR!

Yeah, I got to start thinking about that soon now that the MBDC rig is pretty much done and gone.

I experimented with the touch keyer and it was a flop. For a keyer were timing is important and also have to generate side tone, adding touch sensing just screws everything up. I came to the conclusion that a seperate chip has to be dedicated for switch sensing to work reliably and not interfer with keyer timing. Maybe I'll design a touch paddle accessory some time which can be added latter.

I'm still debating on the miniDSP chip. It would eliminate most of the analog parts and reduces the background hiss a lot. The problem is, it's an expensive part ~ $7.00 in 100's and can't be hand soldered. So, I'll either have to premount it for you or stop suppling wire solder and make you all get and use solder paste - which isn't too bad an idea, since these boards really should be built that way.

The next question is that of a display. I can get a nice back lited LCD Nokia display from China, cheap. It can display 6 lines of 10 characters and has digits large enough to be easy to see. But at 1.7" square, it is a little large and I won't be able to put parts under it, as it would be soldered to the board to keep the profile low. I can get a much smaller LCD display at much higher cost, but the characters are pretty tiny too. Or I can stick with the single digit LED display, which is better then nothing. Maybe see if I can fit the next larger sized digit on the board.

Knob tuning? I'm still a little leary of this. The main issue is the protruding knob. Maybe I should buy one of those new low cost 3D printers and print my own low profile knobs and button caps for the TACK switches. Could probably print boxes too - hell there's an idea...

Speaking of boxes, the MTR box did turn out a little too tall and heavy. But then, a lot of you asked for a bullet proof box, so there you go. Discounting the rubber bumper feet, it's only 0.4" taller than an Altoids tin, but that extra 0.4" does mess up the proportions. So I guess next time I'll have it made a bit flater, along the lines of the ATS-4 boxes.

So, those are the thoughts I have now.

72, Steve KD1JV

11958. Re: [AT_Sprint] RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 15:08:20 UTC
From: wmorrill@...
Topic: 11924 Message: 11958

I have activated a few sites in Montana, and now that the summer season is over, here are my impressions. The KX3 works great, and the built in tuner and battery were useful. It is relatively heavy, and will be replaced by my MTR next season.

I plan to build a new case for the MTR that I already have. The new case will have room for a small rechargeable battery, a tuner, and SWR indicator. A recessed slide switch will be used for an on/off switch. Also, a diode will be used for reverse voltage protection-- don't ask me why I think it is needed. I have small sheet metal brake and shear, building boxes isn't that tough.

Activation antennas that I used this summer were half wave dipoles fed with coax. Trees were used for support, but a fiberglass pole was used when necessary. Even though the dipole was cut for 20m, characteristics are affected by height above ground, so I feel that a tuner is needed.

Almost all of my operation, both as a SOTA chaser and activator, has been on 20 meters. Activators who are on 30 and 40 meters are seldom readable in Montana. There are no local chasers who would listen for me on 40. So, a monoband 20 m rig would be fine for me.

Maybe a volume control would be useful for Steve's new rig.

A larger display would be nice, but once the pile up has started, there isn't time to look at much more than the log book and key.

By the way, I still hand solder components. I am a kit building junkie, and will build and buy anything that comes down the pipe. Thanks for your kits, Steve.

Wendell
N7WM

> For me, a display of some flavor is very helpful. At east to display
> frequency. I would like the new rig to be smaller than my ATS4 and band
> switching. Two band 20/40 or three band 20/30/40 would be good. Pre made
> case is a big plu - I suck at the metal work. The big driver for me is
> the smaller size.
>
>
> 73 Bob K2QPN
>
>
> ---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:
>
> Isn't there a new MTR in the pipeline? Three bander, touch keyer and DSP?

> I love the size of my MTR and would definitely prefer something of the
> same size.. The last MTR case was great, but a bit thick.. It could have
> been a third thinner.. In any case, I am definitely waiting for the next
> MTR!
>
>
> Yeah, I got to start thinking about that soon now that the MBDC rig is
> pretty much done and gone.
>
> I experimented with the touch keyer and it was a flop. For a keyer were
> timing is important and also have to generate side tone, adding touch
> sensing just screws everything up. I came to the conclusion that a
> seperate chip has to be dedicated for switch sensing to work reliably and
> not interfer with keyer timing. Maybe I'll design a touch paddle
> accessory some time which can be added latter.
>
> I'm still debating on the miniDSP chip. It would eliminate most of the
> analog parts and reduces the background hiss a lot. The problem is, it's
> an expensive part ~ $7.00 in 100's and can't be hand soldered. So, I'll
> either have to premount it for you or stop suppling wire solder and make
> you all get and use solder paste - which isn't too bad an idea, since
> these boards really should be built that way.
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> The next question is that of a display. I can get a nice back lited LCD
> Nokia display from China, cheap. It can display 6 lines of 10 characters
> and has digits large enough to be easy to see. But at 1.7" square, it is
> a little large and I won't be able to put parts under it, as it would be
> soldered to the board to keep the profile low. I can get a much smaller
> LCD display at much higher cost, but the characters are pretty tiny too.
> Or I can stick with the single digit LED display, which is better then
> nothing. Maybe see if I can fit the next larger sized digit on the board.
>
> Knob tuning? I'm still a little leary of this. The main issue is the
> protruding knob. Maybe I should buy one of those new low cost 3D printers
> and print my own low profile knobs and button caps for the TACK switches.
> Could probably print boxes too - hell there's an idea...
>
> Speaking of boxes, the MTR box did turn out a little too tall and heavy.
> But then, a lot of you asked for a bullet proof box, so there you go.
> Discounting the rubber bumper feet, it's only 0.4" taller than an Altoids
> tin, but that extra 0.4" does mess up the proportions. So I guess next
> time I'll have it made a bit flater, along the lines of the ATS-4 boxes.
>
> So, those are the thoughts I have now.
>
> 72, Steve KD1JV
>
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11959. Re: [AT_Sprint] RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 16:32:31 UTC
From: Steven Weber
Topic: 11924 Message: 11959

> Also, a diode will be used for reverse voltage protection-- don't ask me
> why I think it is needed.

All my rigs have a diode built in. It's just silly not to design one in.

In the case of the MTR, it's part of a p channel mosfet which gets turned on when the polarity is correct. This effectively "shorts out" the diode and eliminates the voltage drop, which increases the power output a bit for the same battery votlage. Which is why the MTR typically runs a bit closer to 3 watts out instead of 2.5 with a 9V supply.

But, if you have other accessories to power, then those might need a diode of thier own.

Steve KD1JV

11960. Re: [AT_Sprint] MBDC is partially alive.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 16:39:34 UTC
From: Steven Weber
Topic: 11932 Message: 11960

Sounds like you definately have a stuck button. Turning power on with the MENU switch depressed enters calibration mode. Since it's doing this on it's own, the switch is shorted closed. The processor is waiting for the switch to open before it can do anything else. Find that short and it should come alive.
Steve

One step closer.

I have a display that says 125.000000 CAL.

Tuning knob still does nada but I will check the wiring again on Friday.

11961. Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 16:52:13 UTC
From: cloud runner
Topic: 11924 Message: 11961
Attachments: 1 described; binary payloads are missing from this source WARC

With respect to battery ... simply want to mention for Steve's clear understanding ... I have been running my MTR on SOTA activations using a 3S LiPO that is rated 180 mAH, is smaller than the typical 9 volt transistor battery, and weighs 23 grams. It is good for about two hours of active operating, and most SOTA activations last between 20 and 40 minutes.

I have my MTR in a slightly larger case than an Altoids tin, but it isn't entirely satisfactory. The home made paddle mounts inside, slides out for use. Battery mounts inside. mini-space-pen is stored inside and tethered to the box. I hold the radio in my left hand and I have a 3x5 card for a log clipped on the back. This entire thing weighs less than 7 ounces, radio, battery, paddle, log, pen.

FWIW, that;s how I use it. I plug in earbuds and antenna, and I wouldn't mind getting a mini speaker inside, too.

photo shows ATS4 on left, and the MTR on right, with the battery outside just to see it... you can also see the thumbnut by which the paddle slides out for use. 3x5 card is fitted on the back.

73 fred - kt5x (aka WS0TA)

11962. Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 18:20:17 UTC
From: Tim Goodrich
Topic: 11924 Message: 11962

Like Fred, I wouldn't change much. I don't think the display should change and the single led digit is fine for me. I would like to see the ability to decrease power for tuning and battery saving for extended trips/activations. Other than that, I'd like to see the rig be able to handle a bit higher voltage to be able to safely use a standard 13.8v power supply, or at least a 3s lipo.

Tim

K6TW

11963. MBDC T1 Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 19:09:42 UTC
From: k1thp
Topic: 11963 Message: 11963

There seems to be a conflict regarding the number of turns on T1. In one place it says 6 turns bifilar and in another place on the same page it says 8 turns. Which is correct?
Thanks,
Dave K1THP

11964. Re: [AT_Sprint] MBDC T1 Question

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-01 19:57:41 UTC
From: Steven Weber
Topic: 11963 Message: 11964

> There seems to be a conflict regarding the number of turns on T1. In one
> place it says 6 turns bifilar and in another place on the same page it
> says 8 turns. Which is correct?
> Thanks,
> Dave K1THP

It doesn't really matter much, 8 turns is likely better if you want tune down below the AM broadcast band.

Steve KD1JV

11965. RE: [AT_Sprint] MBDC is partially alive.

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-02 03:38:27 UTC
From: Mike Baker
Topic: 11932 Message: 11965

Hi Steve,

Well, it would appear that I had a senior moment when purchasing two pushbutton switches for the rig as I accidentally got NC instead of NO. Duhhh.

Change the switches and now I have display.

Still no side tone, transmit, nor receive. Took a small cap and an alligator clip jumper wire from the antenna connection and started probing. The two LM386 dips seem to be working as I do have some receiver hiss that I can adjust the volume and then prodded with my test lead I can hear all kinds of local AM stations, all at once. I don’t seem to be able to hear the DDS output in an external receiver with the output pin connected to the antenna lead but I will attempt to use a better direct connection to test that out.

So, progress is slow but it is being made. I’ll keep chipping away at it.

Thanks for your help so far.

Mike Baker K7DD

<mailto:K7dd@...> K7dd@...

All QSO's are uploaded to LOTW.

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Friday, November 01, 2013 9:40 AM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MBDC is partially alive.

□

Sounds like you definately have a stuck button. Turning power on with the MENU switch depressed enters calibration mode. Since it's doing this on it's own, the switch is shorted closed. The processor is waiting for the switch to open before it can do anything else. Find that short and it should come alive.

Steve

One step closer.

I have a display that says 125.000000 CAL.

Tuning knob still does nada but I will check the wiring again on Friday.

11966. RE: Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-02 16:48:45 UTC
From: <aurich85@...>
Topic: 11924 Message: 11966

Just some random thoughts here for what it's worth:

1) I think the case that has room inside to accommodate an internal LiPo battery is great. Yes, it would make the overall size larger but it would integrate things so you don't hike 5 miles in and realize you forgot your external battery. There's currently enough room in the existing case to house a 9v battery but I think a little larger capacity LiPo would be ideal.

2) What about a voltage regulator that can handle up to ~18v input so guys could run it straight off a basic solar panel or 3S or 4S LiPo's?

3) Have an integrated on/off switch for said internal battery.

4) I like the idea of a tuning knob but keep it very low profile so it doesn't get broken off. My biggest complaint about my KX3 is the huge knobs just asking to get broken if the radio take an accidental tumble. The KX3 knobs could be 1/4 the height and still be useable, yet more sturdy. Perhaps have a case design with raised edges so the dial/panel is somewhat protected?

5) Standard BNC for antenna.

6) Whatever the display is I would prefer a basic non-illuminated one over a red/backlit display, but I'm probably in the minority there...

Luke
KD0FIN

11967. RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-02 16:54:34 UTC
From: <aurich85@...>
Topic: 11924 Message: 11967

Oh, and a paddle that is somewhat integrated into the case would be pretty cool, too. Like the KX1, or a Palm style paddle that slides right out of the case - but now I'm probably just getting carried away :)

Luke
KD0FIN

---In at_sprint@yahoogroups.com, <aurich85@...> wrote:

Just some random thoughts here for what it's worth:

1) I think the case that has room inside to accommodate an internal LiPo battery is great. Yes, it would make the overall size larger but it would integrate things so you don't hike 5 miles in and realize you forgot your external battery. There's currently enough room in the existing case to house a 9v battery but I think a little larger capacity LiPo would be ideal.

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5) Standard BNC for antenna.

6) Whatever the display is I would prefer a basic non-illuminated one over a red/backlit display, but I'm probably in the minority there...

Luke
KD0FIN

11968. Re: [AT_Sprint] RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-02 17:34:24 UTC
From: Steve Maietta
Topic: 11924 Message: 11968

Well, the new Palm Micro paddle is 2"x.6"x.6" and probably smaller without the outer covering. It would be very cool (but a bit of a mechanical design challenge) to integrate this or something similar with the case. Don't worry about getting carried away -its all brainstorming at this point, a place for Steve to hear all sorts of ideas. Even if he changed nothing, the MTR is still a kickass design all around.

On Saturday, November 2, 2013 12:54 PM, "aurich85@..." <aurich85@...> wrote:

 Oh, and a paddle that is somewhat integrated into the case would be pretty cool, too. Like the KX1, or a Palm style paddle that slides right out of the case - but now I'm probably just getting carried away :)

Luke
KD0FIN

---In at_sprint@yahoogroups.com, <aurich85@...> wrote:

Just some random thoughts here for what it's worth:

1) I think the case that has room inside to accommodate an internal LiPo battery is great. Yes, it would make the overall size larger but it would integrate things so you don't hike 5 miles in and realize you forgot your external battery. There's currently enough room in the existing case to house a 9v battery but I think a little larger capacity LiPo would be ideal.

2) What about a voltage regulator that can handle up to ~18v input so guys could run it straight off a basic solar panel or 3S or 4S LiPo's?

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5) Standard BNC for antenna.

6) Whatever the display is I would prefer a basic non-illuminated one over a red/backlit display, but I'm probably in the minority there...

Luke
KD0FIN

11969. Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-02 22:59:08 UTC
From: WA0ITP
Topic: 11924 Message: 11969

I've always thought it would be more intuitive to have a single "2 way" switch for tuning - Up for Up and Down for Down. I haven't found a suitable switch with that function tho. A couple years ago I remember seeing a mod to do this which employed a joystick type switch. Anyone remember that?

Real radios weigh less than a pound.
I love this radio stuff !
72 WA0ITP
www.wa0itp.com
www.4sqrp.com

11970. Re: [AT_Sprint] RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-02 23:31:43 UTC
From: Peter Martin
Topic: 11924 Message: 11970

On Sat, Nov 2, 2013 at 5:34 PM, Steve Maietta <srmaietta@...> wrote:

>
>
> Well, the new Palm Micro paddle is 2"x.6"x.6" and probably smaller without
> the outer covering. It would be very cool (but a bit of a mechanical
> design challenge) to integrate this or something similar with the case.
>
>

Or just keep it as it is and just mount it like this with it's magnetic
base!
http://www.flickr.com/photos/27533969@N05/9656950532/

Pete
G4ISJ

11971. RE: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-03 00:33:33 UTC
From: William Schmidt
Topic: 11924 Message: 11971

Check this switch out. http://www.youtube.com/watch?v=U4euYhWmKQM
I think it's what your looking for.
Bill,WV1N

To: AT_Sprint@yahoogroups.com
From: wa0itp@mchsi.com
Date: Sat, 2 Nov 2013 17:59:08 -0500
Subject: [AT_Sprint] Next generation of the MTR...

□

I've always thought it would be more intuitive to have a
single "2 way" switch for tuning - Up for Up and Down for Down.
I haven't found a suitable switch with that function tho. A couple years
ago I remember seeing a mod to do this which employed a joystick type
switch. Anyone remember that?

Real radios
weigh less than a pound.
I love this radio stuff !
72
WA0ITP
www.wa0itp.com
www.4sqrp.com

11972. MBDC sensitivity problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-03 03:49:43 UTC
From: <rikluost@...>
Topic: 11972 Message: 11972

Hi all,
got my MBDC going for the first time this morning, seems all good, but sensitivity is very poor - using signal generator -85dBm is almost impossible to hear - so some 25-35 dB more than one would expect. Something is obviously wrong - but what?

- I used ANT2 connector to bypass the 160/80 filters.
- I've checked all supply voltages,
- visual check of soldering looks ok
- double checked most of the component values around the receiver bits
- the transformer is correctly wired and the ends of wires are well connected to the circuit.
- Have not tried TX yet.

Running out of ideas here - any thoughts?

Cheers,
Riku ZL1KLP

11973. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-03 16:17:20 UTC
From: Steven Weber
Topic: 11924 Message: 11973

They make a little SMT one, but it's designed to mount sideways, ie, flat to the board.
Steve KD1JV
I've always thought it would be more intuitive to have a single "2 way" switch for tuning - Up for Up and Down for Down. I haven't found a suitable switch with that function tho. A couple years ago I remember seeing a mod to do this which employed a joystick type switch. Anyone remember that?

11974. Re: [AT_Sprint] MBDC sensitivity problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-03 16:41:39 UTC
From: Steven Weber
Topic: 11972 Message: 11974

got my MBDC going for the first time this morning, seems all good, but sensitivity is very poor - using signal generator -85dBm is almost impossible to hear - so some 25-35 dB more than one would expect. Something is obviously wrong - but what?

If your measuring in wide band mode, that is probably about right. Switching in the audio filters adds gain with each stage, so the NB2 setting has the most sensitivity.

I didn't try to make this overly sensitive for several reasons. First, because of the typically high levels of atmospheric noise on the top bands, too much sensitivity just brings out the noise. The S/N ratio just gets worse, not better. Second, for casual SWBC or AMBC listening, you don't need a great deal of sensitivity. Third, your probably only going to use this for local communications and the other guy is likely going to be running a lot more then 5 watts...

The NB filters add gain as your probably going to need more sensitvity for CW reception and they also help improve the S/N ratio by narrowing the bandwidth. So, that's where I added the gain.

Finally, if you do add a preselector to the receiver or a tuned loop, you can add a preamp there...

Steve KD1JV

11975. Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-03 20:16:02 UTC
From: jer terez
Topic: 11924 Message: 11975

1) I believe there is enough room to fit a 9v or same size lipo in the mtr box, & I think steve still has some ten tec made mtr boxes if you want one.

2) sparkfun has a switch com-08184 for ~a buck and a half though you might have to mount it on a piece of pc board

3)i feel like complaining, i do not like what yahoo has done, it used to be fun easy and useful and now it is difficult irritating painful and awkward. they want me to upgrade my browser, remind me every time i try to get email and there is no upgrade that will go on my hardware. i used to be able to read and post group messages and now for get it. ok.
jerry

11976. Fox: Apps ??

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 04:15:39 UTC
From: Dale Putnam
Topic: 11976 Message: 11976

Apps are being accepted for the quickly arriving FOX HUNT Season.Please zip right on over to the web page and fill two out.. one for 40 and one for 80.You will really be regrettable, if you don't. http://www.qrpfoxhunt.orgWhy let all that fun zip past? Fill one out.. it won't hurt, nor does it cost anything.Good Hunting and good Luck too.!!
Have a great day,

--... ...--
Dale - WC7S in Wy
http://www.qrpfoxhunt.org

11977. RE: Re: [AT_Sprint] MBDC sensitivity problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 07:32:31 UTC
From: <rikluost@...>
Topic: 11972 Message: 11977

Thanks Steve, yes it makes more sense now, On the lower bands where noise levels are so high that added sensitivity will not give much - but probably only adds to problems.

Last night I tested with my active antenna (pa0rdt) and with that one I got very good results. Gain of it might be a bit too high as I quite easily hear 2nd or 3rd harmonics.with it - some even with filters.

With narrower filters I got the sensitivity down to about -95 to -90dBm by ear - so not very accurate measure - but definitely better.

Preselector is defenitely on the list of my add ons. Wonder if anyone has already sketched up one suitable for DC-30MHz...?

Cheers,
Riku ZL1KLP

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

☐ got my MBDC going for the first time this morning, seems all good, but sensitivity is very poor - using signal generator -85dBm is almost impossible to hear - so some 25-35 dB more than one would expect. Something is obviously wrong - but what?

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The NB filters add gain as your probably going to need more sensitvity for CW reception and they also help improve the S/N ratio by narrowing the bandwidth. So, that's where I added the gain.

Finally, if you do add a preselector to the receiver or a tuned loop, you can add a preamp there...

Steve KD1JV

11978. MBDC arrived in France today...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 14:23:20 UTC
From: Richard F5VJD
Topic: 11978 Message: 11978

Thank you Steve for the prompt service... now need to find time to get 'er built and operating.

73

Richard F5VJD

11979. RE: Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 15:03:11 UTC
From: <bubnikv@...>
Topic: 11924 Message: 11979

> 3)i feel like complaining, i do not like what yahoo has done, it used to be fun easy and useful and now it is difficult irritating painful and awkward. they want me to upgrade my browser, remind me every time i try to get email and there is no upgrade that will go on my hardware. i used to be able to read and post group messages and now for get it. ok.

They screwed up badly. The "new" interface is unusable. I feel constantly like stumbling in the darkness.

Vojtech OK1IAK

---In at_sprint@yahoogroups.com, <ohwenzelph@...> wrote:

1) I believe there is enough room to fit a 9v or same size lipo in the mtr box, & I think steve still has some ten tec made mtr boxes if you want one.

2) sparkfun has a switch com-08184 for ~a buck and a half though you might have to mount it on a piece of pc board

3)i feel like complaining, i do not like what yahoo has done, it used to be fun easy and useful and now it is difficult irritating painful and awkward. they want me to upgrade my browser, remind me every time i try to get email and there is no upgrade that will go on my hardware. i used to be able to read and post group messages and now for get it. ok.
jerry

11980. Re: [AT_Sprint] MBDC arrived in France today...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 15:12:51 UTC
From: wmorrill@...
Topic: 11978 Message: 11980

Richard-
I used SIP sockets for the ICs, thinking they were better quality than the sockets that were included in the kit. Don't use these for the big DDS module because the pins won't fit into SIP sockets. Good luck--
Wendell
N7WM

> Thank you Steve for the prompt service... now need to find time to get
> 'er built and operating.
>
> 73
>
> Richard F5VJD
>

11981. Yahoo Group Complaints

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 15:20:08 UTC
From: Alan Dove
Topic: 11924 Message: 11981

Hey, folks:

Nobody but Marissa Mayer likes the new Yahoo:

http://www.theregister.co.uk/2013/09/17/yahoo_groups_complaints_continue/

I suggest directing your complaints to the Yahoo Groups customer service forum:

http://yahoo.uservoice.com/forums/209451

Unlike this list, Marissa's minions actually read that forum. Don't expect much, though. You can see from reading through the previous complaints and Yahoo's responses that they have no intention of rolling this crap back.

--Alan (N3IMU)

--
Alan Dove, Ph.D.
Web: turbidplaque.com
Phone: 917.273.0544
Skype: alandove
Twitter: @alandove

11982. Re: [AT_Sprint] MBDC arrived in France today...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 15:26:23 UTC
From: Richard F5VJD
Topic: 11978 Message: 11982

Hi Wendell & Group

Now that is a useful tip: I had intended to use SIP sockets thinking, like you, that they would be more stable... and I just know that I wouldn't have checked the fit beforehand, so thank you for saving me (and, I'm sure, others) a lot of grief!

73

Richard F5VJD

On 04/11/2013 16:12, wmorrill@... wrote:
>
> Richard-
> I used SIP sockets for the ICs, thinking they were better quality than
> the sockets that were included in the kit. Don't use these for the big
> DDS module because the pins won't fit into SIP sockets. Good luck--
> Wendell
> N7WM
>
> > Thank you Steve for the prompt service... now need to find time to get
> > 'er built and operating.
> >
> > 73
> >
> > Richard F5VJD
> >
>
>

11983. Re: Re: [AT_Sprint] MBDC sensitivity problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 16:34:22 UTC
From: Steven Weber
Topic: 11972 Message: 11983

Oh, and you can install C17 if you want more gain. I think it's a little too much if your using a big antenna. Although it would be possible to add a resistor in series with the cap to set the gain to an intermediate value. That might be worth experimenting with.

Steve
Thanks Steve, yes it makes more sense now, On the lower bands where noise levels are so high that added sensitivity will not give much - but probably only adds to problems.

11984. Re: [AT_Sprint] Yahoo Group Complaints

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 16:56:12 UTC
From: Steven Weber
Topic: 11924 Message: 11984

I think a big part of the problem is they make these major structual changes and then you got to figure out how it all works again on your own. We really hate learning to navigate a new set up. It also helps to have the latest browser and fast internet.

The big issue I find is I can't go to this group directly like I used to. I have to go to thier home page, then click on groups, then on the group I want. I suppose this makes some sense if your a member of a lot of groups. It also ensures traffic to thier home page and the new group format gives them a way to insert more ads.

So, it really boils down to getting used to the new format. Of course, once we do they will change it again...

Steve KD1JV

>
> Unlike this list, Marissa's minions actually read that forum. Don't expect
> much, though. You can see from reading through the previous complaints and
> Yahoo's responses that they have no intention of rolling this crap back.
>
> --Alan (N3IMU)

11985. Built MTR package for sale, includes micro paddle + Pelican case

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 17:33:51 UTC
From: <matthew.d.williams@...>
Topic: 11985 Message: 11985

After much hemming and hawing, my MTR is listed for sale on eBay.

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=251372905468

Built by W0EA, it's a beauty (as many of you know). I put together quite the package for it, with a nice Pelican case, micro paddle, and room to spare for an antenna.

Determined my KX3 is all I need and having twins this year has greatly reduced my radio time. Looking to fund a 3D printer to start looking at modeling/printing radio related items. I realize there are many interested who are international, but I simply don't have the time to figure out costs and deal with customs shipping forms and such.

Videos included in the listing showing the MTR in action. Sad to see it go, but I know someone's itching to get up on a summit with it rather than it sitting on my shelf!

73
-Matt Williams, W2MDW

11986. RE: Built MTR package for sale, includes micro paddle + Pelican case

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 18:00:31 UTC
From: <matthew.d.williams@...>
Topic: 11985 Message: 11986

And it's sold...

I kinda figured there'd be someone out there itching to pull the trigger on this and so it happened... Sold in less than an hour... Good luck if you're still looking for a kit, I truly wish there were more to go around but I understand Steve's desire to keep these limited, especially as he iterates on them.

73.
-W2MDW

---In AT_Sprint@yahoogroups.com, <at_sprint@yahoogroups.com> wrote:

After much hemming and hawing, my MTR is listed for sale on eBay.

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=251372905468

Built by W0EA, it's a beauty (as many of you know). I put together quite the package for it, with a nice Pelican case, micro paddle, and room to spare for an antenna.

Determined my KX3 is all I need and having twins this year has greatly reduced my radio time. Looking to fund a 3D printer to start looking at modeling/printing radio related items. I realize there are many interested who are international, but I simply don't have the time to figure out costs and deal with customs shipping forms and such.

Videos included in the listing showing the MTR in action. Sad to see it go, but I know someone's itching to get up on a summit with it rather than it sitting on my shelf!

73
-Matt Williams, W2MDW

11987. RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-04 19:36:09 UTC
From: <jgaffke@...>
Topic: 11924 Message: 11987

> The big issue I find is I can't go to this group directly

Try bookmarking this:
http://groups.yahoo.com/neo/groups/AT_Sprint/conversations/topics

It's more than just getting used to the new format.

Right now, my display is all threaded, and I have to poke each one to see if I missed a conversation I care about. Top message I see is the very first of the thread (which I continuously have to jump over), followed by the very last. Totally bonkers. I'm sure there's plenty more that's screwed up, but this basic central part of the interface is so brain dead that I'm not inclined to explore for other infuriating "improvements".

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

I think a big part of the problem is they make these major structual changes
and then you got to figure out how it all works again on your own. We really
hate learning to navigate a new set up. It also helps to have the latest
browser and fast internet.

The big issue I find is I can't go to this group directly like I used to. I
have to go to thier home page, then click on groups, then on the group I
want. I suppose this makes some sense if your a member of a lot of groups.
It also ensures traffic to thier home page and the new group format gives
them a way to insert more ads.

So, it really boils down to getting used to the new format. Of course, once
we do they will change it again...

Steve KD1JV

>
> Unlike this list, Marissa's minions actually read that forum. Don't expect
> much, though. You can see from reading through the previous complaints and
> Yahoo's responses that they have no intention of rolling this crap back.
>
> --Alan (N3IMU)

11988. RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 04:34:12 UTC
From: <jgaffke@...>
Topic: 11924 Message: 11988

There's a couple of "improvements" I probably should figure out:
And can't.

When I reply to a post, the edit window does not show any history.
But once it is posted to the group, I see the entire previous post has been included.
How do I edit that history down to avoid clutter and better show what I am responding to?

I'd like to turn back on the daily digests via email since reading from this web interface is so silly.
Clicking "Manage My Groups" in the left column gives a promising page, shows the correct email address and shows daily digests are turned on. But they never show up. Do I need to also turn on digests somewhere else?

---In at_sprint@yahoogroups.com, <jgaffke@...> wrote:

> The big issue I find is I can't go to this group directly

Try bookmarking this:
http://groups.yahoo.com/neo/groups/AT_Sprint/conversations/topics

It's more than just getting used to the new format.

Right now, my display is all threaded, and I have to poke each one to see if I missed a conversation I care about. Top message I see is the very first of the thread (which I continuously have to jump over), followed by the very last. Totally bonkers. I'm sure there's plenty more that's screwed up, but this basic central part of the interface is so brain dead that I'm not inclined to explore for other infuriating "improvements".

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

I think a big part of the problem is they make these major structual changes
and then you got to figure out how it all works again on your own. We really
hate learning to navigate a new set up. It also helps to have the latest
browser and fast internet.

The big issue I find is I can't go to this group directly like I used to. I
have to go to thier home page, then click on groups, then on the group I
want. I suppose this makes some sense if your a member of a lot of groups.
It also ensures traffic to thier home page and the new group format gives
them a way to insert more ads.

So, it really boils down to getting used to the new format. Of course, once
we do they will change it again...

Steve KD1JV

>
> Unlike this list, Marissa's minions actually read that forum. Don't expect

> much, though. You can see from reading through the previous complaints and
> Yahoo's responses that they have no intention of rolling this crap back.
>
> --Alan (N3IMU)

11989. RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 04:41:17 UTC
From: Heilman, William Clay
Topic: 11924 Message: 11989

Can we please take this gripe session and put it in a new thread, or better yet, direct your gripes to Yahoo not the group.

73 -de ke7ngo Clayton
WX MAA8108
NAQCC 5902
MST (-7)

dit dit

Compone Accomoda Supera
"It's only a mistake if you don't learn from it."

11990. Re: [AT_Sprint] RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 04:50:26 UTC
From: Pete Spotts
Topic: 11924 Message: 11990

On Tue, 5 Nov 2013 04:41:17 +0000
"Heilman, William Clay" <WilliamClay.Heilman@...> wrote:

> Can we please take this gripe session and put it in a new thread, or
> better yet, direct your gripes to Yahoo not the group.
>
>

Er, flameproof suit donned. How important is it to rely on the web interface when you can have the list's emails sent directly to you. Clog an inbox? No. Set up a folder for the group and set up a filter that ships the AT_Sprint emails to the folder as they come in. Then browse that folder to your heart's content at your leisure. And I'll bet your email client will organize the emails in the folder by thread. Problem solved? No muss, no fuss, no dealing with overhauled web interfaces. Or at least you deal with it less frequently. Just askin'. ;-)

With best regards,

Pete
--
Peter N. Spotts -- N1ABS (ex-W1PNS)
http://www.w1pns.net
Email: n1abs@... | Skype: pspotts
QCWA #34679 | SKCC #4853T | QRP-ARCI #4174
NEQRP #714 | NAQCC #2446 | GQRP #13202

"Amateur radio is a contact sport.
Get on the air and make a contact!"
-- Lyle Amundson, K0LFV

11991. RE: [AT_Sprint] RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 12:07:27 UTC
From: Mike Olbrisch
Topic: 11924 Message: 11991

Even better Pete, if you see a thread you don't like, or a person you are tired of hearing, another simple filter just deletes the messages completely, no more bother.

Personally, I have not even seen the "NEW" YAHOO!

Vy73 - Mike - KD5KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Pete Spotts
Sent: Monday, November 04, 2013 21:50
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] RE: Next generation of the MTR...

On Tue, 5 Nov 2013 04:41:17 +0000
"Heilman, William Clay" <WilliamClay.Heilman@...> wrote:

> Can we please take this gripe session and put it in a new thread, or
> better yet, direct your gripes to Yahoo not the group.
>
>

Er, flameproof suit donned. How important is it to rely on the web interface when you can have the list's emails sent directly to you. Clog an inbox? No. Set up a folder for the group and set up a filter that ships the AT_Sprint emails to the folder as they come in. Then browse that folder to your heart's content at your leisure. And I'll bet your email client will organize the emails in the folder by thread. Problem solved? No muss, no fuss, no dealing with overhauled web interfaces. Or at least you deal with it less frequently. Just askin'. ;-)

With best regards,

Pete
--
Peter N. Spotts -- N1ABS (ex-W1PNS)
http://www.w1pns.net
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-- Lyle Amundson, K0LFV

Yahoo Groups Links

11992. MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 14:03:48 UTC
From: cloud runner
Topic: 11992 Message: 11992

Rather than a Touch Keyer of some sort which I think has been abandoned, an approach I have wondered about ...

infrared connection from radio to paddle ... I would love to eliminate the paddle cable ...

73 fred - kt5x

11993. Re: [AT_Sprint] RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 12:40:05 UTC
From: n1abs@...
Topic: 11924 Message: 11993

Roger that. ;-)

With best regards,

Pete
N1ABS

----- Original Message -----

From: "Mike Olbrisch" <mike-2007@...>
To: "AT Sprint" <AT_Sprint@yahoogroups.com>
Sent: Tuesday, November 5, 2013 7:07:27 AM
Subject: RE: [AT_Sprint] RE: Next generation of the MTR...

Even better Pete, if you see a thread you don't like, or a person you are tired of hearing, another simple filter just deletes the messages completely, no more bother.

Personally, I have not even seen the "NEW" YAHOO!

Vy73 - Mike - KD5KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Pete Spotts
Sent: Monday, November 04, 2013 21:50
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] RE: Next generation of the MTR...

On Tue, 5 Nov 2013 04:41:17 +0000
"Heilman, William Clay" <WilliamClay.Heilman@...> wrote:

> Can we please take this gripe session and put it in a new thread, or
> better yet, direct your gripes to Yahoo not the group.
>
>

Er, flameproof suit donned. How important is it to rely on the web interface when you can have the list's emails sent directly to you. Clog an inbox? No. Set up a folder for the group and set up a filter that ships the AT_Sprint emails to the folder as they come in. Then browse that folder to your heart's content at your leisure. And I'll bet your email client will organize the emails in the folder by thread. Problem solved? No muss, no fuss, no dealing with overhauled web interfaces. Or at least you deal with it less frequently. Just askin'. ;-)

With best regards,

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-- Lyle Amundson, K0LFV

Yahoo Groups Links

11994. FOX: Season Opener

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 15:28:03 UTC
From: Dale Putnam
Topic: 11994 Message: 11994

The Game Warden just announced the season opener, for TONIGHT at 7pm MT on 40m 7.040 +/- 10Khz, There will be two great Foxii out scampering around, trying to hand out pelts, come on by, and see if you too can take home a brand new pelt, from the 13-14 Season Openee, fromN0UR Jim MN and KV2X Tom NYGood Luck to all, and to all a good Hunt!!

Have a great day,

--... ...--
Dale - WC7S in Wy

11995. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 20:58:10 UTC
From: Steven Weber
Topic: 11992 Message: 11995

>infrared connection from radio to paddle ... I would love to eliminate the paddle cable ...

73 fred - kt5x

Good idea. I've alway wanted to make wireless paddle, but I was going to use the little 900 MHz RF transmitter/receiver modules or use a processor with a built in transmitter.

Instead of building this into the rig, it might be more usefull as an accessory. Basically, there needs to be a sender module and a receiver module.

There are a couple of ways this can be done.

1, The paddle sends a code for dot or dash to the receiver, which then decodes the signal and activates the approperate paddle input on the rig. This would work for any rig with a built in keyer.

2, The keyer is located at the paddle and a simple on/off keying signal is sent to the rig. Now it can be used with any rig, built in keyer or not. Having all the keyer controls located at the paddle instead of over at the rig might be an advantage too.

Method #1 would require the receiver to have it's own power source. Method #2 the power could to the receiver could be placed on the sleeve, normally used as the dash input. In either case, the sender would need power, this could be a simple coin cell or two.

I'm leaning towards method #1 as it is the simplest way to implement it and with a chip which only has to encode the dot and dash signal, it should be possible to add a touch switch function too.

Okay, great another project to think about - thanks :)

Steve KD1JV

11996. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 21:04:23 UTC
From: Lee Hiers
Topic: 11992 Message: 11996

Is Bluetooth overkill for this?

On Tue, Nov 5, 2013 at 3:58 PM, Steven Weber <steve.kd1jv@...> wrote:

>
>
> >infrared connection from radio to paddle ... I would love to eliminate
> the paddle cable ...
>
> 73 fred - kt5x
>
>
> Good idea. I've alway wanted to make wireless paddle, but I was going to
> use the little 900 MHz RF transmitter/receiver modules or use a processor
> with a built in transmitter.
>
> Instead of building this into the rig, it might be more usefull as an
> accessory. Basically, there needs to be a sender module and a receiver
> module.
>
> There are a couple of ways this can be done.
>
> 1, The paddle sends a code for dot or dash to the receiver, which then
> decodes the signal and activates the approperate paddle input on the rig.
> This would work for any rig with a built in keyer.
>
> 2, The keyer is located at the paddle and a simple on/off keying signal is
> sent to the rig. Now it can be used with any rig, built in keyer or not.
> Having all the keyer controls located at the paddle instead of over at the
> rig might be an advantage too.
>
> Method #1 would require the receiver to have it's own power source. Method
> #2 the power could to the receiver could be placed on the sleeve, normally
> used as the dash input. In either case, the sender would need power, this
> could be a simple coin cell or two.
>
> I'm leaning towards method #1 as it is the simplest way to implement it
> and with a chip which only has to encode the dot and dash signal, it should
> be possible to add a touch switch function too.
>
> Okay, great another project to think about - thanks :)
>
> Steve KD1JV
>
>

>
>
>

11997. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 21:51:33 UTC
From: Colin Tuckley
Topic: 11992 Message: 11997

On 05/11/13 20:58, Steven Weber wrote:

> Good idea. I've alway wanted to make wireless paddle, but I was going to
> use the little 900 MHz RF transmitter/receiver modules or use a
> processor with a built in transmitter.

If you do this then please make sure it's a type that is legal world
wide and not just in the USA.

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x38C9D903

To err is human. To moo bovine

11998. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 21:51:46 UTC
From: Peter Martin
Topic: 11992 Message: 11998

On 5 Nov 2013 21:04, "Lee Hiers" <lee.hiers@...> wrote:
>
>
>
> Is Bluetooth overkill for this?
>
>
> On Tue, Nov 5, 2013 at 3:58 PM, Steven Weber <steve.kd1jv@...>
wrote:
>>
>>
>>
>> >infrared connection from radio to paddle ... I would love to eliminate
the paddle cable ...

Don't forget that Palm are already doing IR with their Palm Cube

http://www.palm-radio.de/english/eirlt.html

Pete
G4ISJ

11999. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 21:53:48 UTC
From: TJ Campie
Topic: 11992 Message: 11999

What is the aversion to touch keyers? I wasn't sure I would like it either
but I really *really* like the one I put in my MTR. It is the perfect
minimal paddle for these types of rigs in my opinion.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
http://W0EA.us
Because QRO is too easy

On Tue, Nov 5, 2013 at 3:51 PM, Colin Tuckley <colin@...> wrote:

>
>
> On 05/11/13 20:58, Steven Weber wrote:
>
> > Good idea. I've alway wanted to make wireless paddle, but I was going to
> > use the little 900 MHz RF transmitter/receiver modules or use a
> > processor with a built in transmitter.
>
> If you do this then please make sure it's a type that is legal world
> wide and not just in the USA.
>
> Colin G8TMV
>
> --
> Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
> Debian Developer | +44(0)7799 143369 | 0x38C9D903
>
> To err is human. To moo bovine
>
>
>

12000. RE: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 21:54:03 UTC
From: CyclingSoldier
Topic: 11992 Message: 12000

Years ago there was a project in either QST or 73 that did that very thing: Separate xmit/rcv modules for a CW keyer. That was something I was "going to do" but never did.

Jack KE4LWT

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Steven Weber
Sent: Tuesday, November 05, 2013 3:58 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MTR idea

>infrared connection from radio to paddle ... I would love to eliminate the paddle cable ...

73 fred - kt5x

Good idea. I've alway wanted to make wireless paddle, but I was going to use the little 900 MHz RF transmitter/receiver modules or use a processor with a built in transmitter.

Instead of building this into the rig, it might be more usefull as an accessory. Basically, there needs to be a sender module and a receiver module.

There are a couple of ways this can be done.

1, The paddle sends a code for dot or dash to the receiver, which then decodes the signal and activates the approperate paddle input on the rig. This would work for any rig with a built in keyer.

2, The keyer is located at the paddle and a simple on/off keying signal is sent to the rig. Now it can be used with any rig, built in keyer or not. Having all the keyer controls located at the paddle instead of over at the rig might be an advantage too.

Method #1 would require the receiver to have it's own power source. Method #2 the power could to the receiver could be placed on the sleeve, normally used as the dash input. In either case, the sender would need power, this could be a simple coin cell or two.

I'm leaning towards method #1 as it is the simplest way to implement it and with a chip which only has to encode the dot and dash signal, it should be possible to add a touch switch function too.

Okay, great another project to think about - thanks :)

Steve KD1JV

--

12001. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 22:11:40 UTC
From: Micah Reese
Topic: 11992 Message: 12001

Bluetooth would probably be more expensive, use more power (even Bluetooth LE), and there's a possibility of RF interference.

However, I've always thought it would be nice to Bluetooth the audio to my phone/tablet/computer, have it decode the CW, and then convert keyboard inputs (maybe even voice) into keyed inputs into the radio.

Sent from Yahoo Mail on Android

12002. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 22:22:24 UTC
From: cloud runner
Topic: 11992 Message: 12002

my aversion to it is that I rest my fingers on the paddle full time so my fingers know where it is. I can't get used to not touching it between elements.

my homebrew paddle only weighs about six grams. I attach it to either the radio or my log support, both of which would be present anyway, to support it.

fred - kt5x

aka WS0TA

What is the aversion to touch keyers? I wasn't sure I would like it either but I really *really* like the one I put in my MTR. It is the perfect minimal paddle for these types of rigs in my opinion.

73, W0EA
TJ

12003. RE: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 22:22:28 UTC
From: Heilman, William Clay
Topic: 11992 Message: 12003

I had this idea of using BT for both the key and sound. This way you can be remote from the radio. Having our radio remote to you can give you all kinds of options for operations.

73 -de ke7ngo Clayton
WX MAA8108
NAQCC 5902

MST (-7)

Compone Accomoda Supera
"It's only a mistake if you don't learn from it."

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Micah Reese
Sent: Tuesday, November 05, 2013 15:12
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MTR idea

Bluetooth would probably be more expensive, use more power (even Bluetooth LE), and there's a possibility of RF interference.

However, I've always thought it would be nice to Bluetooth the audio to my phone/tablet/computer, have it decode the CW, and then convert keyboard inputs (maybe even voice) into keyed inputs into the radio.

Sent from Yahoo Mail on Android<http://overview.mail.yahoo.com/mobile/?.src=Android>

From: Lee Hiers <lee.hiers@gmail.com<mailto:lee.hiers@gmail.com>>;
To: <AT_Sprint@yahoogroups.com<mailto:AT_Sprint@yahoogroups.com>>;
Subject: Re: [AT_Sprint] MTR idea
Sent: Tue, Nov 5, 2013 9:04:23 PM

Is Bluetooth overkill for this?

On Tue, Nov 5, 2013 at 3:58 PM, Steven Weber <steve.kd1jv@gmail.com<mailto:steve.kd1jv@gmail.com>> wrote:

>infrared connection from radio to paddle ... I would love to eliminate the paddle cable ...

73 fred - kt5x

Good idea. I've alway wanted to make wireless paddle, but I was going to use the little 900 MHz RF transmitter/receiver modules or use a processor with a built in transmitter.

Instead of building this into the rig, it might be more usefull as an accessory. Basically, there needs to be a sender module and a receiver module.

There are a couple of ways this can be done.

1, The paddle sends a code for dot or dash to the receiver, which then decodes the signal and activates the approperate paddle input on the rig. This would work for any rig with a built in keyer.

2, The keyer is located at the paddle and a simple on/off keying signal is sent to the rig. Now it can be used with any rig, built in keyer or not. Having all the keyer controls located at the paddle instead of over at the rig might be an advantage too.

Method #1 would require the receiver to have it's own power source. Method #2 the power could to the receiver could be placed on the sleeve, normally used as the dash input. In either case, the sender would need power, this could be a simple coin cell or two.

I'm leaning towards method #1 as it is the simplest way to implement it and with a chip which only has to encode the dot and dash signal, it should be possible to add a touch switch function too.

Okay, great another project to think about - thanks :)

Steve KD1JV

12004. Re: MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 23:25:23 UTC
From: Guy
Topic: 11992 Message: 12004

But the Palm IR add-on solution is quite expensive! Almost $180!!

In the States, see http://www.mtechnologies.com/palm/palmir.htm for more detail.

Guy/N7UN

--- In AT_Sprint@yahoogroups.com, Peter Martin <paradoxpete.pdm@...> wrote:
>
> On 5 Nov 2013 21:04, "Lee Hiers" <lee.hiers@...> wrote:
> >
> >
> >
> > Is Bluetooth overkill for this?
> >
> >
> > On Tue, Nov 5, 2013 at 3:58 PM, Steven Weber <steve.kd1jv@...>
> wrote:
> >>
> >>
> >>
> >> >infrared connection from radio to paddle ... I would love to eliminate
> the paddle cable ...
>
> Don't forget that Palm are already doing IR with their Palm Cube
>
> http://www.palm-radio.de/english/eirlt.html
>
> Pete
> G4ISJ
>

12005. Re: [AT_Sprint] Re: MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-05 23:58:44 UTC
From: WA0ITP
Topic: 11992 Message: 12005

I seem to remember that the QST project was fairly expensive also, ~ $100 comes to mind.

I like touch paddles and have built several of them. I do prefer some, but not all, mechanical paddles over them. With a little practice they seem natural, as do finger tappers. All are good.

Real radios weigh less than a pound.
I love this radio stuff !
72 WA0ITP
www.wa0itp.com
www.4sqrp.com

----- Original Message -----
From: "Guy" <n7un.guy@...>
To: <AT_Sprint@yahoogroups.com>
Sent: Tuesday, November 05, 2013 5:25 PM
Subject: [AT_Sprint] Re: MTR idea

| But the Palm IR add-on solution is quite expensive! Almost $180!!
|
| In the States, see http://www.mtechnologies.com/palm/palmir.htm for more detail.
|
| Guy/N7UN
|
| --- In AT_Sprint@yahoogroups.com, Peter Martin <paradoxpete.pdm@...> wrote:
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| > On 5 Nov 2013 21:04, "Lee Hiers" <lee.hiers@...> wrote:
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| > > On Tue, Nov 5, 2013 at 3:58 PM, Steven Weber <steve.kd1jv@...>
| > wrote:
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| > >>
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| > >> >infrared connection from radio to paddle ... I would love to eliminate
| > the paddle cable ...
| >
| > Don't forget that Palm are already doing IR with their Palm Cube
| >
| > http://www.palm-radio.de/english/eirlt.html

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| > Pete
| > G4ISJ
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| Yahoo Groups Links
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12006. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 00:20:44 UTC
From: Steven Weber
Topic: 11992 Message: 12006

>However, I've always thought it would be nice to Bluetooth the audio to my phone/tablet/computer, have it decode the CW, and then convert keyboard inputs (maybe even voice) into keyed inputs into the radio.

I tried that once - used a cheap bluetooth headset and wired into an ATS-3B. Was hopeing to talk to my PDA with it for PSK. It totally trashed the ATS receiver, but I did have it jammed into the Altoids tin with the rest of the rig. Might work as a well shielded external module. But I hear reports of the ATS receiver not liking cell phones near-by too. I suppose they make too much wide band noise in the HF spectrum.

Steve KD1JV

12007. Re: [AT_Sprint] Re: MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 00:27:50 UTC
From: Steven Weber
Topic: 11992 Message: 12007

Yikes. I think I can do Fred's 3X5 combo card holder, paddle and IR transmitter for much less then that! For a clock, you can get a kids digital watch for a dollar or two, take off the wirst band and double tape it to the card holder.

Steve KD1JV

> But the Palm IR add-on solution is quite expensive! Almost $180!!
>
> In the States, see http://www.mtechnologies.com/palm/palmir.htm for more
> detail.
>

12008. RE: [AT_Sprint] Re: MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 01:09:28 UTC
From: CyclingSoldier
Topic: 11992 Message: 12008

Wow! I don't remember it being that expensive, but it explains why I
shelved the idea!

Jack KE4LWT

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf
Of WA0ITP
Sent: Tuesday, November 05, 2013 6:59 PM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: MTR idea

I seem to remember that the QST project was fairly expensive also, ~ $100
comes
to mind.

I like touch paddles and have built several of them. I do prefer some, but
not
all, mechanical paddles over them. With a little practice they seem natural,
as
do finger tappers. All are good.

Real radios weigh less than a pound.
I love this radio stuff !
72 WA0ITP
www.wa0itp.com
www.4sqrp.com

12009. RE: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 01:09:39 UTC
From: Mike Olbrisch
Topic: 11992 Message: 12009

I just wonder how the react when you wear gloves? WET gloves?

Vy73 - Mike - KD5KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of TJ Campie
Sent: Tuesday, November 05, 2013 14:54
To: AT Sprint
Subject: Re: [AT_Sprint] MTR idea

What is the aversion to touch keyers? I wasn't sure I would like it either but I really *really* like the one I put in my MTR. It is the perfect minimal paddle for these types of rigs in my opinion.

73, W0EA
TJ

12010. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 01:34:38 UTC
From: TJ Campie
Topic: 11992 Message: 12010

Well you don’t have to have the touch keyer be the ONLY method… I have mine installed in parallel with the regular input, both can be used at once!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Nov 5, 2013, at 7:09 PM, Mike Olbrisch <mike-2007@...> wrote:

>
> I just wonder how the react when you wear gloves? WET gloves?
>
>
>
> Vy73 - Mike - KD5KC.
>
> El Paso, Texas - DM61rt.
>
> W5-SOTA Association Manager.
>
> NA-SOTA info: http://na-sota.org/
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> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of TJ Campie
> Sent: Tuesday, November 05, 2013 14:54
> To: AT Sprint
> Subject: Re: [AT_Sprint] MTR idea
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>
> What is the aversion to touch keyers? I wasn't sure I would like it either but I really *really* like the one I put in my MTR. It is the perfect minimal paddle for these types of

rigs in my opinion.
>
>
>
> 73, W0EA
> TJ
>
>
>

12011. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 02:37:00 UTC
From: Gabriel Moreno
Topic: 11992 Message: 12011

+1 on Touch keyer.

They make gloves now that one can use with iPhones I'm guessing they'll work with touch keyers.

Gabriel

Sent from my iPhone

On Nov 5, 2013, at 5:34 PM, TJ Campie <tom.campie@...> wrote:

> Well you don’t have to have the touch keyer be the ONLY method… I have mine installed in parallel with the regular input, both can be used at once!
>
>
> 73, W0EA
> TJ
> ----
> QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
> NAQCC #3768 | Flying Pigs QRP #2254
> Elecraft KX3 SN 288
> Because QRO is too easy
>
> On Nov 5, 2013, at 7:09 PM, Mike Olbrisch <mike-2007@...> wrote:
>
>>
>> I just wonder how the react when you wear gloves? WET gloves?
>>
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>>
>> Vy73 - Mike - KD5KC.
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>> El Paso, Texas - DM61rt.
>>
>> W5-SOTA Association Manager.
>>
>> NA-SOTA info: http://na-sota.org/
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>> From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of TJ Campie

>> Sent: Tuesday, November 05, 2013 14:54
>> To: AT Sprint
>> Subject: Re: [AT_Sprint] MTR idea
>>
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>>
>> What is the aversion to touch keyers? I wasn't sure I would like it either but I really *really* like the one I put in my MTR. It is the perfect minimal paddle for these types of rigs in my opinion.
>>
>>
>>
>> 73, W0EA
>> TJ
>>
>
>

12012. RE: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 02:43:09 UTC
From: Mike Olbrisch
Topic: 11992 Message: 12012

Cool - they make gloves now that work with touch devices.

So not only do you buy the touch device, now you need special gloves too? But how about making touch devices that work with YOUR gloves? You know - the warm ones that you use on the summit? Not the frilly white ones that are approved for the I-phone.

I haven't needed gloves since I moved to Texas. But somewhere out there is my opposite, and he needs gloves just about ALL the time. It's that guy I am thinking about.

Vy73 - Mike - KD5KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Gabriel Moreno
Sent: Tuesday, November 05, 2013 19:37
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MTR idea

+1 on Touch keyer.

They make gloves now that one can use with iPhones I'm guessing they'll work with touch keyers.

Gabriel

Sent from my iPhone

On Nov 5, 2013, at 5:34 PM, TJ Campie <tom.campie@...> wrote:

Well you don’t have to have the touch keyer be the ONLY method… I have mine installed in parallel with the regular input, both can be used at once!

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
Because QRO is too easy

On Nov 5, 2013, at 7:09 PM, Mike Olbrisch <mike-2007@...> wrote:

I just wonder how the react when you wear gloves? WET gloves?

Vy73 - Mike - KD5KC.
El Paso, Texas - DM61rt.

W5-SOTA Association Manager.
NA-SOTA info: <http://na-sota.org/> http://na-sota.org/

From: <mailto:AT_Sprint@yahoogroups.com> AT_Sprint@yahoogroups.com [
<mailto:AT_Sprint@...m> mailto:AT_Sprint@yahoogroups.com] On Behalf Of TJ Campie
Sent: Tuesday, November 05, 2013 14:54
To: AT Sprint
Subject: Re: [AT_Sprint] MTR idea

What is the aversion to touch keyers? I wasn't sure I would like it either but I really *really* like the one I put in my MTR. It is the perfect minimal paddle for these types of rigs in my opinion.

73, W0EA
TJ

12013. RE: Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 08:13:15 UTC
From: <bubnikv@...>
Topic: 11992 Message: 12013

The variant with the keyer at the paddle generating an infrared straight key signal is what PalmPaddle does IMHO.

I bet the keyer chip modulates the IR LED directly:

http://www.palm-radio.de/english/eirlt_IR-Junker.html

And there is really nothing at the receiver side, but the receive photosensor with integrated filter, which is found in every CRT TV. The IR sensor has 3 legs, power and a digital output.

http://www.palm-radio.de/english/eirlt_IR-Sensor.html

If Steve provides a programmed chip for the keyer / transmitter, it would be trivial to homebrew the whole thing because there will be just a couple of passive parts necessary plus the IR LED and the IR sensor.

I actually experimented with the IR sensor some 20 years ago when I was at the high school. I wrote an application to analyse codes of unknown IR remotes.

73, Vojtech OK1IAK

---In AT_Sprint@yahoogroups.com, <paradoxpete.pdm@...> wrote:

On 5 Nov 2013 21:04, "Lee Hiers" <lee.hiers@... mailto:lee.hiers@...> wrote:

>
>
>
> Is Bluetooth overkill for this?
>
>
> On Tue, Nov 5, 2013 at 3:58 PM, Steven Weber <steve.kd1jv@... mailto:steve.kd1jv@...>
wrote:
>>
>>
>>
>> >infrared connection from radio to paddle ... I would love to eliminate the paddle cable
...
Don't forget that Palm are already doing IR with their Palm Cube
http://www.palm-radio.de/english/eirlt.html http://www.palm-radio.de/english/eirlt.html
Pete
G4ISJ

12014. RE: Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 12:16:53 UTC
From: <xv4y@...>
Topic: 11992 Message: 12014

Hi Steve, QRPers,

Personally I would go for the Method #2. I've used cheap 433 MHz one-way modules to build remote sensors for a weather station kit I was planning to sell (one module for TX, one for RX, around 50m coverage) and they do OOK very easily with rather current draw (but not negligible since they have no power saving features).
If you want to send "dash and dot" through it that means that you will have to implement some kind of protocol. This may add some latency to the keying...

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/

http://varc.radioclub.asia/

---In AT_Sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

>infrared connection from radio to paddle ... I would love to eliminate the paddle cable ...

73 fred - kt5x

Good idea. I've alway wanted to make wireless paddle, but I was going to use the little 900 MHz RF transmitter/receiver modules or use a processor with a built in transmitter.

Instead of building this into the rig, it might be more usefull as an accessory. Basically, there needs to be a sender module and a receiver module.

There are a couple of ways this can be done.

1, The paddle sends a code for dot or dash to the receiver, which then decodes the signal and activates the approperate paddle input on the rig. This would work for any rig with a built in keyer.

2, The keyer is located at the paddle and a simple on/off keying signal is sent to the rig. Now it can be used with any rig, built in keyer or not. Having all the keyer controls located at the paddle instead of over at the rig might be an advantage too.

Method #1 would require the receiver to have it's own power source. Method #2 the power could to the receiver could be placed on the sleeve, normally used as the dash input. In either case, the sender would need power, this could be a simple coin cell or two.

I'm leaning towards method #1 as it is the simplest way to implement it and with a chip which only has to encode the dot and dash signal, it should be possible to add a touch switch function too.

Okay, great another project to think about - thanks :)

Steve KD1JV

12015. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 12:22:41 UTC
From: Alan Dove
Topic: 11992 Message: 12015

Hey, folks:

This thread seems to show that we all have different preferences for keys.

Steve, if you really want to play around with different key designs, maybe you could let people choose their preferred style(s) when ordering (e.g. "I'd like the regular jack plus the touch keyer module" or "I'll take the IR-based version.") If that makes the kitting too annoying, I'd just ask that you leave the builder the option of sticking with a standard stereo jack.

- Alan (N3IMU)

Alan Dove, Ph.D.
917.273.0544
alandove.com

> On Nov 6, 2013, at 3:13 AM, <bubnikv@...> wrote:
>
> The variant with the keyer at the paddle generating an infrared straight key signal is what PalmPaddle does IMHO.

12016. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 14:58:03 UTC
From: Philip Townsend Lontz
Topic: 11992 Message: 12016

I see these ads from Mouser every week about fast cheap low power Blue Tooth chip sets... A blue tooth key?

To much RF running around to make it work? To much latency?

A wise man once said nothing....

On Nov 6, 2013, at 5:22 AM, Alan Dove <alan.dove@...> wrote:

> Hey, folks:
>
> This thread seems to show that we all have different preferences for keys.
>
> Steve, if you really want to play around with different key designs, maybe you could let people choose their preferred style(s) when ordering (e.g. "I'd like the regular jack plus the touch keyer module" or "I'll take the IR-based version.") If that makes the kitting too annoying, I'd just ask that you leave the builder the option of sticking with a standard stereo jack.
>
> - Alan (N3IMU)
>
> Alan Dove, Ph.D.
> 917.273.0544
> alandove.com
>
> > On Nov 6, 2013, at 3:13 AM, <bubnikv@...> wrote:
> >
> > The variant with the keyer at the paddle generating an infrared straight key signal is what PalmPaddle does IMHO.
>

12017. Re: MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 18:03:51 UTC
From: k1thp
Topic: 11992 Message: 12017

I have noticed that effect here also. In fact any 602-based receiver (including my K1 and KX1 Elecraft rigs) go nuts with a nearby cell phone. I have a new problem with my ATT U-Verse installation. The router is in the ham shack and I have to add ferrite clamp on beads to the antenna input coax for the MTR, Tribander and KX1 rigs in order to attenuate the pulse noise.

Dave K1THP
>
>
> >However, I've always thought it would be nice to Bluetooth the audio to my phone/tablet/computer, have it decode the CW, and then convert keyboard inputs (maybe even voice) into keyed inputs into the radio.
>
> I tried that once - used a cheap bluetooth headset and wired into an ATS-3B. Was hopeing to talk to my PDA with it for PSK. It totally trashed the ATS receiver, but I did have it jammed into the Altoids tin with the rest of the rig. Might work as a well shielded external module. But I hear reports of the ATS receiver not liking cell phones near-by too. I suppose they make too much wide band noise in the HF spectrum.
>
> Steve KD1JV
>

12018. Stupid Question, but....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 22:10:05 UTC
From: Hank Greeb
Topic: 12018 Message: 12018

I ordered a digital display and a DDS from vendors on e-bay. Used Paypal to pay. I know I received confirmation that the orders had been received. In fact, I just received the display today. I know that my account has been charged for the DDS.

But, I can't find the messages with the link to the orders by searching for "ebay" "confirm" "order."

What's the address from which confirmations of orders are sent? I'd like to give the place from whence I received the display an "excellent" rating for service.

I don't know whether this is on topic or off topic, and I know it's a stupid question, but it's relevant to the 160/80 kit which I have in my possession, so I figure it's not waaayyyy off topic.

72/73 de n8xx Hg
QRP >99.44% of the time

12019. Building my ATS-3B, after long break

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 22:13:50 UTC
From: <af4ex.radio@...>
Topic: 12019 Message: 12019

Hi Steve and all,
After a 6-year hiatus, I'm resuming my build. I have one of the 3B's from the 'second 100 kits' series, dated 24-Sept-2007.

Should I just follow the 24-Sept manual, or are there errata or further revisions that I should be aware of? Perhaps some of you could share your 'ATS-3B lessons learned'. :-|

That would all be very helpful. Anxious to get this rig on the air. It's a classic.

Tnx&72,
John/af4ex

12020. RE: [AT_Sprint] Stupid Question, but....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 22:22:17 UTC
From: Ed Manuel
Topic: 12018 Message: 12020

Hank,

Log into MyEbay once you are on the Ebay Page. Look in your purchases - there will be an icon for "Leave Feedback".

Ed

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Hank Greeb
Sent: Wednesday, November 06, 2013 4:10 PM
To: AT_Sprint@yahoogroups.com
Subject: [AT_Sprint] Stupid Question, but....

I ordered a digital display and a DDS from vendors on e-bay. Used Paypal to pay. I know I received confirmation that the orders had been received. In fact, I just received the display today. I know that my account has been charged for the DDS.

But, I can't find the messages with the link to the orders by searching for "ebay" "confirm" "order."

What's the address from which confirmations of orders are sent? I'd like to give the place from whence I received the display an "excellent" rating for service.

I don't know whether this is on topic or off topic, and I know it's a stupid question, but it's relevant to the 160/80 kit which I have in my possession, so I figure it's not waaayyyy off topic.

72/73 de n8xx Hg
QRP >99.44% of the time

12021. Re: Stupid Question, but....

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-06 22:20:12 UTC
From: Hank Greeb
Topic: 12018 Message: 12021

Never mind. I found it in a separate folder. :)

On 11/6/2013 5:10 PM, Hank Greeb wrote:
> I ordered a digital display and a DDS from vendors on e-bay. Used
> Paypal to pay. I know I received confirmation that the orders had been
> received. In fact, I just received the display today. I know that
> my account has been charged for the DDS.
>
> But, I can't find the messages with the link to the orders by
> searching for "ebay" "confirm" "order."
>
> What's the address from which confirmations of orders are sent? I'd
> like to give the place from whence I received the display an
> "excellent" rating for service.
>
> I don't know whether this is on topic or off topic, and I know it's a
> stupid question, but it's relevant to the 160/80 kit which I have in
> my possession, so I figure it's not waaayyyy off topic.
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time

12022. Re: [AT_Sprint] MBDC arrived in France today...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 00:12:23 UTC
From: wmorrill@...
Topic: 11978 Message: 12022

Be sure to completely inventory the parts before starting, it will improve the chances of finding a mistake later. Don't plug the ICs in until a voltage check has been made. Install the diodes, they aren't mentioned in the instructions.

> Thank you Steve for the prompt service... now need to find time to get
> 'er built and operating.
>
> 73
>
> Richard F5VJD
>

12023. MBDC arrived in France!

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 00:55:39 UTC
From: <decastejac@...>
Topic: 12023 Message: 12023

Hit

The kit is at home!

Just wait 9850 module and LCD

TY Steve
Very good job!
73

Patrick
F6GWE

12024. Re: [AT_Sprint] Building my ATS-3B, after long break

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 01:52:37 UTC
From: Steven Weber
Topic: 12019 Message: 12024

You expect ME to remember after 6 years? As far as I know, there are no other revisions.
Hi Steve and all,

After a 6-year hiatus, I'm resuming my build. I have one of the 3B's from the 'second 100 kits' series, dated 24-Sept-2007.
Should I just follow the 24-Sept manual, or are there errata or further revisions that I should be aware of? Perhaps some of you could share your 'ATS-3B lessons learned'. :-|That would all be very helpful. Anxious to get this rig on the air. It's a classic.

12025. Re: [AT_Sprint] Building my ATS-3B, after long break

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 02:19:34 UTC
From: Paul Smith
Topic: 12019 Message: 12025

My ATS3B was from the 4 th run. I printed the instructions, read them and built the little rig using solder paste and hot air.... It came up on the first go. It was my first sad project as well..... Jump in man,,, it will work

de Paul N0NBD

Sent from my iPad

> On Nov 6, 2013, at 7:52 PM, "Steven Weber" <steve.kd1jv@...> wrote:
>
> □
>
> You expect ME to remember after 6 years? As far as I know, there are no other revisions.
> Hi Steve and all,
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> After a 6-year hiatus, I'm resuming my build. I have one of the 3B's from the 'second 100 kits' series, dated 24-Sept-2007.
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>
>
>
>

12026. RE: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 04:03:30 UTC
From: Mike Olbrisch
Topic: 11992 Message: 12026

From what I see, Steve's designs are aimed primarily at simplicity and minimal weight.

For Steve's continued simplicity of design and minimalist weight, he is probably best off continuing with the simple key jack, and allowing people to choose the key of their choice, or to add to the complexity and weight on their own. That way, everyone gets to use the BEST KEY - their favorite.... and those who want something special are free to build an additional plug-in IR receiver a touch paddle, or whatever.

Vy73 - Mike - KD5KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

-----Original Message-----
From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Alan Dove
Sent: Wednesday, November 06, 2013 05:23
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] MTR idea

Hey, folks:

This thread seems to show that we all have different preferences for keys.

Steve, if you really want to play around with different key designs, maybe you could let people choose their preferred style(s) when ordering (e.g. "I'd like the regular jack plus the touch keyer module" or "I'll take the IR-based version.") If that makes the kitting too annoying, I'd just ask that you leave the builder the option of sticking with a standard stereo jack.

- Alan (N3IMU)

Alan Dove, Ph.D.
917.273.0544
alandove.com

> On Nov 6, 2013, at 3:13 AM, <bubnikv@...> wrote:
>
> The variant with the keyer at the paddle generating an infrared straight key signal is what PalmPaddle does IMHO.

Yahoo Groups Links

12027. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 04:07:35 UTC
From: Hank Greeb
Topic: 11992 Message: 12027

Amen, AMEN, Amen Amen.

On 11/6/2013 11:03 PM, Mike Olbrisch wrote:
> For Steve's continued simplicity of design and minimalist weight, he is probably best off continuing with the simple key jack, and allowing people to choose the key of their choice, or to add to the complexity and weight on their own.

12028. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 04:21:12 UTC
From: Gil G.
Topic: 11992 Message: 12028

Absolutely. Small, light and low current. Add too many features and you'll get a KX1.. Which I can buy right now. I want the MTR because it is smaller and works great at it is. I don't want to have to carry around batteries for an IR key. As Mike says, anything can be added later.
If it could fit in the same small size, SW listening would be a big plus, but not at the price of size increase.

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Nov 6, 2013, at 11:03 PM, Mike Olbrisch wrote:

> For Steve's continued simplicity of design and minimalist weight, he is
> probably best off continuing with the simple key jack, and allowing people
> to choose the key of their choice, or to add to the complexity and weight on
> their own. That way, everyone gets to use the BEST KEY - their favorite....

12029. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 04:41:11 UTC
From: Joe W2KJ
Topic: 11992 Message: 12029

I would like to be able to select either HAND KEY mode or INTERNAL KEYER mode via a software selection.

I prefer to use an external keyer with my MTR and it requires me to carry a small stereo mini plug to jack into the KEY jack to select HAND KEY mode when powering the MTR up.

The mini plug requirement just adds to one more thing to forget to bring with you on your outing (grin).

73, Joe W2KJ
I QRP, therefore I am

12030. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 05:46:49 UTC
From: Hank Greeb
Topic: 11992 Message: 12030

Joe:

To select Hand Key I just plug in the mono-plug which is part of my J-38 setup which I usually bring with me (I'm a very Olde Fogey who LOVES his straight key.) For me, this is the most logical way to "teach" the rig my preference. To have to go through some routine to tell the software that a straight key is being used would seem to be a very cumbersome, extra step.

Every external keyer which I've seen uses a mono plug. Of what kind of external electronic keyer speaketh thou? Or do you also use one of those high priced rigs like a KX3 which is stupid enough to look at the "ring" connection when in straight key mode so that you need to have a stereo plug at the end of your electronic keyer with nothing attached to the ring connection? I've complained to Elecraft of this stupidity with no avail. When I use a borrowed KX3, I'm forced to carry a special connector which is female mono mini jack connected ONLY to the tip end of a stereo mini plug. I had to make this special unit, because haven't found one commercially made. (I haven't really looked, because it would be soooooo very easy for Elecraft to implement what Steve does with his rigs.)

72/73 de n8xx Hg
QRP >99.44^% of the time

On 11/6/2013 11:41 PM, Joe W2KJ wrote:
> I would like to be able to select either HAND KEY mode or INTERNAL KEYER mode via a software selection.
>
> I prefer to use an external keyer with my MTR and it requires me to carry a small stereo mini plug to jack into the KEY jack to select HAND KEY mode when powering the MTR up.
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> The mini plug requirement just adds to one more thing to forget to bring with you on your outing (grin).
>
> 73, Joe W2KJ
> I QRP, therefore I am

12031. Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 05:50:56 UTC
From: Steven Weber
Topic: 11992 Message: 12031

You just need a mono plug on your external keyer cable. If you want SK mode with a paddle, just power on with the dash paddle closed.

Steve

>I would like to be able to select either HAND KEY mode or INTERNAL KEYER
>mode via a software selection.
>
> I prefer to use an external keyer with my MTR and it requires me to carry
> a small stereo mini plug to jack into the KEY jack to select HAND KEY mode
> when powering the MTR up.
>
> The mini plug requirement just adds to one more thing to forget to bring
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>
> 73, Joe W2KJ
> I QRP, therefore I am

12032. Brass standoffs

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 08:12:06 UTC
From: XV4Y (Yan)
Topic: 12032 Message: 12032

Hi,

One of my providers now sells nice brass standoffs on eBay.
Cheap and easy to use for your home-made boxes...
http://www.ebay.com/itm/25pcs-M3-Male-6mm-x-M3-Female-10mm-Brass-Standoff-Spacer-M3-10-6-/370872500463

The same provider also offers several heights and similar hardware...

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

12033. RE: Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 08:18:31 UTC
From: <bubnikv@...>
Topic: 11992 Message: 12033

> If it could fit in the same small size, SW listening would be a big plus, but not at the price of size increase.

That is where the miniDSP would shine. You could easily change the bandwidth. I would have to check, how difficult is to demodulate AM though.

I received the miniDSP evaluation board yesterday. Now I have to spare couple of days somehow to verify, whether the A/D converter could actually be used to sample at the IF directly. If so, the miniDSP could do the detection, filtering, AGC and earphone amplification. Just add the front mixer and VFO and you have a complete receiver. If the A/D converter cannot be used to sample at the IF frequency (the IF frequency could be lowered if necessary), then a classic IQ SDR could be implemented, but that requires two front end mixers and a quadrature VFO, which is usually achieved by running an oscillator at 4x VFO frequency and dividing.

http://www.ti.com/tool/TLV320AIC3254EVM-K

73, Vojtech OK1IAK

---In at_sprint@yahoogroups.com, <gil@...> wrote:

Absolutely. Small, light and low current. Add too many features and you'll get a KX1.. Which I can buy right now. I want the MTR because it is smaller and works great at it is. I don't want to have to carry around batteries for an IR key. As Mike says, anything can be added later. If it could fit in the same small size, SW listening would be a big plus, but not at the price of size increase.

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their own. That way, everyone gets to use the BEST KEY - their favorite....

12034. RE: Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 08:19:22 UTC
From: <bubnikv@...>
Topic: 11992 Message: 12034

My alternate ATS-3b firmware allows switching between paddle or SK + digital from the menu.
Vojtech OK1IAK

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

You just need a mono plug on your external keyer cable. If you want SK mode
with a paddle, just power on with the dash paddle closed.

Steve

>I would like to be able to select either HAND KEY mode or INTERNAL KEYER
>mode via a software selection.
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12035. RE: Re: [AT_Sprint] Building my ATS-3B, after long break

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 12:44:36 UTC
From: <af4ex.radio@...>
Topic: 12019 Message: 12035

Paul & Steve, thanks. I've got most of the Front side finished. Not too difficult. The Back side is more intimidating. Started with solder paste and hot air, but that was too messy, so now am using a doofus and 1/32" soldering tip. Hard to see those little bits, even with my Harbor Freight head magnifier. :-|
Tnx,
John/af4ex

---In AT_Sprint@yahoogroups.com, <psmith61@...> wrote:

My ATS3B was from the 4 th run. I printed the instructions, read them and built the little rig using solder paste and hot air.... It came up on the first go. It was my first sad project as well..... Jump in man,,, it will work

de Paul N0NBD

Sent from my iPad

On Nov 6, 2013, at 7:52 PM, "Steven Weber" <steve.kd1jv@... mailto:steve.kd1jv@...> wrote:

☐
You expect ME to remember after 6 years? As far as I know, there are no other revisions.
Hi Steve and all,
After a 6-year hiatus, I'm resuming my build. I have one of the 3B's from the 'second 100 kits' series, dated 24-Sept-2007.
Should I just follow the 24-Sept manual, or are there errata or further revisions that I should be aware of? Perhaps some of you could share your 'ATS-3B lessons learned'. :-|That would all be very helpful. Anxious to get this rig on the air. It's a classic.

12036. Re: [AT_Sprint] Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 13:14:59 UTC
From: Håkan Olsson
Topic: 11924 Message: 12036

So, there have surfaced a lot of different wishes for the next generation of MTR, some more wildly creative than others. No offence, but one can not stop thinking there seems to be those who see this as some kind of theoretical exercise and those who express their opinion based on actual experience. Between those who have activated one or two SOTA:e, or none at all, and those who have activated 10, 25 or more SOTA.s. Between those who have walked a few meter from their cars and those who have trecked hours, if not days, to reach the summit far away from any possibility to recharge their batteries. Between those who just want a new nice little toy in the home shack and those who actually intend to use it in the bush for what it is supposed to be used for in the first place.

The latter group knows that the battery in most cases will weight more than any MTR and probably will be bigger and perhaps even more expensive. 10 fresh Enelope NiHm batteris of 2500 mAh will last you 8 or 9 SOTA activations lasting 30 to 45 minutes each of intensive CW work. This leavs nothing left to do any casual QSO:s along the trail. Making the size and weight of the new MTR as small as possible ought thus NOT be the number one priority. Of higher priority is power consumption to keep the weight of the battery as low as possible. Keeping the current below 50 mA on receive and below 600 mA on transmit is and should be the number one priority!

Some have talked about having place for the batteries in same case as the MTR. Okay, and what about those who actually intend to walk the Appalachian Trail in the US or Kungsleden in Sweden? Those who need more like 5000 mAh? What about them?

Because of power consumption we are not going to get world-class receiver performance. We are more or less stuck with the SA612 in the first mixer and what it can deliver in dynamic range. Anything better would rise the power consumption above 50 mA. Adding to this a decent bandwidth of about 600 Hz we are left with a receiver that is far from the best, but has a performance that is ENOUGH to successfully activate a SOTA and make some occasional qso:s along the trail.

What Steven think is best after the first mixer is up to him and his ambitions, we will most likely follow whatever he chooses to do! Analog or miniDSP is up to him as long as the receive current stays below 50 mA!

A display showing frequency and battery voltage is a good thing. A tiny one is better than no display at all. Frequency to know where you are, and battery voltage not to ruin your expensive batteries. Batteries that in some cases even might be more expensive than your precious little MTR!

W0EA have shown that there actually exist counters that can act as frequency tuner and that could be side-mounted like the volume control on the ATS-4. The argument against a rotary frequency control because of a protruding knob is thus no longer valid. From now on it is just a matter of the willingness to implement it.

From the responses it is obvious that Europeans work under different conditions than the Americans. Europeans favour lower bands, Americans favour higher bands. Both seems to be satisfied with two or three bands. So, let?s choose any band you like between 80 and 15 meters! While you build the rig you choose the bands. Necessary parts are included in the kit!

And again, if you haven?t noticed, I have activated 306 SMFF:s and 60 SOTA:s and I still think that the ATS-4b is the best there is! If Steven want to prove me wrong I would be more than happy to accept whatever he would come up with!

73 to you all from:
H?kan / SM6EQO
http://hem.bredband.net/b101180/In%20the%20field.html

12037. RE: Re: [AT_Sprint] Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 15:02:10 UTC
From: <srmaietta@...>
Topic: 11924 Message: 12037

At this point it IS a theoretical exercise. If all we focused on was receive current then the discussion wouldn't have brought up any of the interesting ideas that might inspire new circuits, radios, and products. I think we'd all agree on the importance of low current draw, and we take it for granted that Steve keeps that high on the priority list.

Those who actually plan on walking the AT will of course bring a larger battery pack along with them, and probably some sort of solar panel to keep it charged up. Something modern -like a 3 cell 11.1v 5000mah LiPoly. It's the size of two granola bars and weighs 380 grams.

There is something to be said though for a rig with internal battery, touch keyer, ant tuner all in one box for the 75% of users who don't go much beyond a few miles from our cars.

Lets keep it theoretical What could be done to improve on the SA612? Are we really "stuck" with it? What if cost was of no concern?
~Steve

---In AT_Sprint@yahoogroups.com, <sm6eqo@...> wrote:

So, there have surfaced a lot of different wishes for the next generation of MTR, some more wildly creative than others. No offence, but one can not stop thinking there seems to be those who see this as some kind of theoretical exercise and those who express their opinion based on actual experience. Between those who have activated one or two SOTA:e, or none at all, and those who have activated 10, 25 or more SOTA.s. Between those who have walked a few meter from their cars and those who have trecked hours, if not days, to reach the summit far away from any possibility to recharge their batteries. Between those who just want a new nice little toy in the home shack and those who actually intend to use it in the bush for what it is supposed to be used for in the first place.
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From the responses it is obvious that Europeans work under different conditions than the Americans. Europeans favour lower bands, Americans favour higher bands. Both seems to be satisfied with two or three bands. So, let´s choose any band you like between 80 and 15 meters! While you build the rig you choose the bands. Necessary parts are included in the kit!
And again, if you haven´t noticed, I have activated 306 SMFF:s and 60 SOTA:s and I still think that the ATS-4b is the best there is! If Steven want to prove me wrong I would be more than happy to accept whatever he would come up with!
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Håkan / SM6EQO
http://hem.bredband.net/b101180/In%20the%20field.html
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12038. RE: RE: Re: [AT_Sprint] MTR idea

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 16:24:16 UTC
From: <n5vwn@...>
Topic: 11992 Message: 12038

A while back, I seem to remember Steve making a single band rig that had a built in manual tuner for his AT hike. At least for backpacking or SOTA efforts, I would like to see something like that. Pretty much everything self contained. At least the rig and a tuner. A 9v battery plug could sit on the outside attached to the case. Radio shack has a AA case with a 9v attachment on it for added time on the air.

You could order different bands. Or if it doesn't take up anymore space, dual band. A straight key on the lid would be cool with the option of plugging in a paddle to bypass. Make these for any band that is reasonable. I'd kill, (or maybe harm), for 10 or 6 meters. But I guess that would be prohibitive. But I'm sure whatever the price, it would sell out overnight.
Oh yeah, make a lot of 'em. A hell of a lot of 'em.

de n5vwn ats3a owner.

---In AT_Sprint@yahoogroups.com, <bubnikv@gmail.com> wrote:

My alternate ATS-3b firmware allows switching between paddle or SK + digital from the menu.
Vojtech OK1IAK

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

You just need a mono plug on your external keyer cable. If you want SK mode
with a paddle, just power on with the dash paddle closed.

Steve

>I would like to be able to select either HAND KEY mode or INTERNAL KEYER
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> 73, Joe W2KJ
> I QRP, therefore I am

12039. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 16:42:14 UTC
From: Gil G.
Topic: 11924 Message: 12039

Hello,

I think the SA612 works fine. The miniDSP, that would be great and a major improvement.
No battery inside, that should be up to the user. We all like using different ones.
I don't think the MTR needs new "internal" anything. The current form factor is great.
Truth is, there isn't much to be improved upon, it's a great radio.
The receive current draw should be kept as low as possible, that's a given.
We should all be happy to get one extra band, which for me would mean being able to operate on contest days on 30m. Add DSP and that's all I could possibly ask for.. Well, SWL maybe ;-)

Gil.
--
PGP Key: http://keskydee.com/gil.asc

On Nov 7, 2013, at 10:02 AM, <srmaietta@...> <srmaietta@...> wrote:

> What could be done to improve on the SA612?

12040. Re: [AT_Sprint] Building my ATS-3B, after long break

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 17:00:29 UTC
From: Johnny Matlock
Topic: 12019 Message: 12040

Gm John
All the info you should need is in the files section on the group site.
Just make sure you have the correct Rev.
Good luck
Johnny AC 0BQ

On Thursday, November 7, 2013, wrote:

>
>
> Paul & Steve, thanks. I've got most of the Front side finished. Not
> too difficult. The Back side is more intimidating. Started with solder
> paste and hot air, but that was too messy, so now am using a doofus
> and 1/32" soldering tip. Hard to see those little bits, even with my Harbor
> Freight head magnifier. :-|
>
> Tnx,
>
> John/af4ex
>
>
> ---In AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint@yahoogroups.com');>, <psmith61@...> wrote:
>
> My ATS3B was from the 4 th run. I printed the instructions, read them and
> built the little rig using solder paste and hot air.... It came up on the
> first go. It was my first sad project as well..... Jump in man,,, it will
> work
>
> de Paul N0NBD
>
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>
> On Nov 6, 2013, at 7:52 PM, "Steven Weber" <steve.kd1jv@...<javascript:_e({}, 'cvml',
'steve.kd1jv@...');>>
> wrote:
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> You expect ME to remember after 6 years? As far as I know, there are no
> other revisions.
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> Hi Steve and all,
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> After a 6-year hiatus, I'm resuming my build. I have one of the 3B's from
> the 'second 100 kits' series, dated 24-Sept-2007.
> Should I just follow the 24-Sept manual, or are there errata or further
> revisions that I should be aware of? Perhaps some of you could share your
> 'ATS-3B lessons learned'. :-|That would all be very helpful. Anxious to
> get this rig on the air. It's a classic.
>
>
>
>
>

--
QRP....."more smiles per watt"

12041. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 18:18:38 UTC
From: Steven Weber
Topic: 11924 Message: 12041

We should all be happy to get one extra band, which for me would mean being able to operate on contest days on 30m. Add DSP and that's all I could possibly ask for.. Well, SWL maybe ;-)

Adding a 3d band doesn't impact the cost or size too much, so I think that will be a given. I might kick up the DDS clock speed to 50 MHz so 17M could be added to the mix.

SWL capability is a bit more complicated. There are a couple of issue there, one is the crystal IF fitler is a bit narrow for voice and making it adjustable bandwidth degrades it's performance where you really need it - CW reception. The other is the BFO frequency really needs to be reset also.

However, it just occured to me there is a spare output on the 1st mixer. This could be routed to a spare input on the miniDSP chip and the VFO reset to make this a Direct Conversion receiver. Humm, might not be enough gain without an intermediate audio amp, but then for SWL might not need it. Would be worth a try.

I think I'll stick to the single LED digit for display. Even a mini chip-on-glass 2x16 LCD takes up too much space.

For packaging, I think I'll make the case as low profile as possible. If you take a standard 8.5" x 11" clip board and cut it in half, you can mount the rig and paddle at the top of the board and have enough room for some paper to log on below it. Use rubber bands to hold stuff to the board.

There is just enough surface area to hold the clip board on your lap, making a convenient operating table while sitting on a rock or a log.

72, Steve KD1JV

12042. Re: [AT_Sprint] Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 23:04:49 UTC
From: Gil G.
Topic: 11924 Message: 12042
Attachments: 1 described; binary payloads are missing from this source WARC

On Thu, 2013-11-07 at 13:18 -0500, Steven Weber wrote:
> If you take a standard 8.5" x 11" clip board and cut it in half, you
> can mount the rig and paddle at the top of the board and have enough
> room for some paper to log on below it. Use rubber bands to hold stuff
> to the board.

That was exactly my thinking!
As to SWL, even if it covered only 31 and 41m, would be great. I think there is also 19,22? Not sure.. AM might not be necessary, as one can tune on one sideband, but the sound would be better with it.
The thinner case would be great, but the same gauge as the last one!
The single LED display works fine, no need to change it.

Thanks again for your work! I can't wait to see it.. Might even get two!

Gil.

12043. DBDC (Dual Band 160/80) Clarification Needed

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 00:35:17 UTC
From: Blinn
Topic: 12043 Message: 12043

I'm wiring the flat cable to the LCD. The instructions says not to connect pins 1,2, and 3 until the voltage check is done. So, pins 4,5, and 6 would be wired using the next three wires of this six wire group, at least that seems logical. Then, the instructions say pins 6, 7, 8, and 9 are not used. The photo inset shows pins one through six and pins 11 through 14 as connected, with 7,8,9, and 10 not used.

What is the correct way?

Bill - W7WEL

Sent with AquaMail for Android
http://www.aqua-mail.com

12044. MTR Touch Paddle

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-07 16:45:42 UTC
From: John - VE4JWC
Topic: 12044 Message: 12044

Hey out there,

Anyone experiment with this simple touch paddle design using a
darlington pair?
http://www.qsl.net/w6dps/paddle.html

Stealing the built in paddle contacts from W0EA's blog post
http://www.w0ea.us/search?updated-max=2013-08-19T06:16:00-07:00&max-results=7

I did mine up similarly with Brass acorn nuts, wired up a couple of
darlington pairs and away it went.
It works FB when running off a wall wart plugged in at home, but i get
nothing when running off a 9v battery outside.

Suggestions? Maybe someone has a better circuit that would fit in the
MTR for this, but I really like the minimal concept of the D Pair.

John - VE4JWC

12045. RE: [AT_Sprint] Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 02:54:21 UTC
From: Mike Olbrisch
Topic: 11924 Message: 12045

Well said sir. Very well said. Steve designs tiny lightweight radios. And for a purpose. That purpose is to carry radio long distances. All that extra stuff is just that - STUFF. Not necessary. If someone needs more, there are other choices.

I am still waiting and hoping for a re-release of the ATS-4. I will be wanting to get one for the 5 y/o grandson.... we can build it together when he gets a little older. He just bought me a sign for my workbench. It says Grandpa's repair shop. Toys repaired here.

Next summer I am thinking we will start off with an oatmeal box crystal set, just like the old days.

Vy73 - Mike - KD5KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Håkan Olsson
Sent: Thursday, November 07, 2013 06:15
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: Next generation of the MTR...

So, there have surfaced a lot of different wishes for the next generation of MTR, some more wildly creative than others. No offence, but one can not stop thinking there seems to be those who see this as some kind of theoretical exercise and those who express their opinion based on actual experience. Between those who have activated one or two SOTA:e, or none at all, and those who have activated 10, 25 or more SOTA.s. Between those who have walked a few meter from their cars and those who have trecked hours, if not days, to reach the summit far away from any possibility to recharge their batteries. Between those who just want a new nice little toy in the home shack and those who actually intend to use it in the bush for what it is supposed to be used for in the first place.
The latter group knows that the battery in most cases will weight more than any MTR and probably will be bigger and perhaps even more expensive. 10 fresh Enelope NiHm batteris of 2500 mAh will last you 8 or 9 SOTA activations lasting 30 to 45 minutes each of intensive CW work. This leavs nothing left to do any casual QSO:s along the trail. Making the size and weight of the new MTR as small as possible ought thus NOT be the number one priority. Of higher priority is power consumption to keep the weight of the battery as low as possible. Keeping the current below 50 mA on receive and below 600 mA on transmit is and should be the number one priority!
Some have talked about having place for the batteries in same case as the MTR. Okay, and what about those who actually intend to walk the Appalachian

Trail in the US or Kungsleden in Sweden? Those who need more like 5000 mAh? What about them?
Because of power consumption we are not going to get world-class receiver performance. We are more or less stuck with the SA612 in the first mixer and what it can deliver in dynamic range. Anything better would rise the power consumption above 50 mA. Adding to this a decent bandwidth of about 600 Hz we are left with a receiver that is far from the best, but has a performance that is ENOUGH to successfully activate a SOTA and make some occasional qso:s along the trail.
What Steven think is best after the first mixer is up to him and his ambitions, we will most likely follow whatever he chooses to do! Analog or miniDSP is up to him as long as the receive current stays below 50 mA!
A display showing frequency and battery voltage is a good thing. A tiny one is better than no display at all. Frequency to know where you are, and battery voltage not to ruin your expensive batteries. Batteries that in some cases even might be more expensive than your precious little MTR!
W0EA have shown that there actually exist counters that can act as frequency tuner and that could be side-mounted like the volume control on the ATS-4. The argument against a rotary frequency control because of a protruding knob is thus no longer valid. From now on it is just a matter of the willingness to implement it.
From the responses it is obvious that Europeans work under different conditions than the Americans. Europeans favour lower bands, Americans favour higher bands. Both seems to be satisfied with two or three bands. So, let´s choose any band you like between 80 and 15 meters! While you build the rig you choose the bands. Necessary parts are included in the kit!
And again, if you haven´t noticed, I have activated 306 SMFF:s and 60 SOTA:s and I still think that the ATS-4b is the best there is! If Steven want to prove me wrong I would be more than happy to accept whatever he would come up with!
73 to you all from:
Håkan / SM6EQO
http://hem.bredband.net/b101180/In%20the%20field.html

12046. Re: [AT_Sprint] MTR Touch Paddle

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 03:02:12 UTC
From: WA0ITP
Topic: 12044 Message: 12046

Hey John,

Sure did and it worked well. Here's the write up
http://www.wa0itp.com/touchpad.html

Real radios weigh less than a pound.
I love this radio stuff !
72 WA0ITP
www.wa0itp.com
www.4sqrp.com

----- Original Message -----
From: "John - VE4JWC" <ve4jwc@...>
To: <at_sprint@yahoogroups.com>
Sent: Thursday, November 07, 2013 10:45 AM
Subject: [AT_Sprint] MTR Touch Paddle

| Hey out there,
|
| Anyone experiment with this simple touch paddle design using a
| darlington pair?
| http://www.qsl.net/w6dps/paddle.html
|
| Stealing the built in paddle contacts from W0EA's blog post
| http://www.w0ea.us/search?updated-max=2013-08-19T06:16:00-07:00&max-results=7
|
| I did mine up similarly with Brass acorn nuts, wired up a couple of
| darlington pairs and away it went.
| It works FB when running off a wall wart plugged in at home, but i get
| nothing when running off a 9v battery outside.
|
| Suggestions? Maybe someone has a better circuit that would fit in the
| MTR for this, but I really like the minimal concept of the D Pair.
|
| John - VE4JWC
|
|
| ------------------------------------
|
| Yahoo Groups Links
|
|
|

12047. Re: MTR Touch Paddle

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 15:24:15 UTC
From: Reed White
Topic: 12044 Message: 12047

John, you asked for a circuit-design suggestion.

It probably works fine in the home with a wall-wart because your body is picking up enough 60Hz to turn on the Darlington pair. There is no 60 Hz in the woods.

Perhaps you could try a PNP transistor for the first transistors with the emitter flipped up to the control lines, and with the PNP's collector feeding the NPN's base. The second NPN transistors would remain the same. You might need a high-ohm (10K to 1M) pull-down resistor from the NPN transistor's base to the effective ground line if the circuit is overly sensitive. You might also want capacitors in the circuit if it is too sensitive to RF ...

This design might work better with a battery because if you hold the rig with your left hand and do code with your right, there would be a high resistance path to ground through your body that would turn on the PNP (and hence NPN) transistors.

Disclaimer: I did not actually test this suggestion.

... Reed K7FLY

12048. Re: [AT_Sprint] Re: MTR Touch Paddle

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 16:07:07 UTC
From: Steven Weber
Topic: 12044 Message: 12048

> It probably works fine in the home with a wall-wart because your body is
> picking up enough 60Hz to turn on the Darlington pair. There is no 60 Hz
> in the woods.
>

Yep, that's the reason, no AC pick up to trigger it. I belive I've seen touch switch designs which used an oscillator to provide the AC signal. The finger is used to capacitively couple the AC signal to the detector.

Using skin resistance by it's self isn't very reliable.

Steve KD1JV

12049. (no subject)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 16:11:10 UTC
From: Jerry Gaffke
Topic: 12049 Message: 12049

KD1JV wrote:
> This could be routed to a spare input on the miniDSP chip and the
VFO reset to make this a Direct Conversion receiver.

Is this the miniDSP? http://www.ti.com/product/tlv320aic3206
Wow, very cool. Designed for stereo audio processing, two channels sampling at up to 192 KHz.
Sucks 3 or 4 mW. Drives headphones. Could this be the basis for a low powered software defined radio?

Crystal filtering up front to knock out strong adjacent signals is simple and probably better for CW,

but the option of adapting this to SDR would be very cool. Oscillator would need to run at 4x, so either
SDR is restricted to use at low frequencies or perhaps try an Si514 powered from a clean switcher.
KE7ER

12050. Re: [AT_Sprint] DBDC (Dual Band 160/80) Clarification Needed

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 16:18:19 UTC
From: Steven Weber
Topic: 12043 Message: 12050

I guess I need to learn to count - or type.

The D0 to D4 pins on the display are left open, so that would be 7, 8, 9 and 10.

Steve KD1JV

> I'm wiring the flat cable to the LCD. The instructions says not to
> connect
> pins 1,2, and 3 until the voltage check is done. So, pins 4,5, and 6 would
> be wired using the next three wires of this six wire group, at least that
> seems logical. Then, the instructions say pins 6, 7, 8, and 9 are not
> used. The photo inset shows pins one through six and pins 11 through 14
> as
> connected, with 7,8,9, and 10 not used.
>
> What is the correct way?
>
> Bill - W7WEL

12051. Re: [AT_Sprint] (unknown)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 18:48:18 UTC
From: Steven Weber
Topic: 3211 Message: 12051

Actually, I'm looking at the AIC3252, which I belive is similer. And yes, a SDR might be possible with this chip.

Steve KD1JV

KD1JV wrote:
> This could be routed to a spare input on the miniDSP chip and the VFO reset to make this a Direct Conversion receiver.

Is this the miniDSP? http://www.ti.com/product/tlv320aic3206
Wow, very cool. Designed for stereo audio processing, two channels sampling at up to 192 KHz.
Sucks 3 or 4 mW. Drives headphones. Could this be the basis for a low powered software defined radio?

Crystal filtering up front to knock out strong adjacent signals is simple and probably better for CW,

but the option of adapting this to SDR would be very cool. Oscillator would need to run at 4x, so either
SDR is restricted to use at low frequencies or perhaps try an Si514 powered from a clean switcher.

KE7ER

12052. ... MTR Touch Paddle & Other Ideas ...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 16:28:51 UTC
From: Andy - GM0NWI
Topic: 12052 Message: 12052

Fella's

With all the chatter here on the reflector in the last few days, regarding new implantations or up-grades to the " MTR " Series of radio's ...

Someone post a few days back a link to " W0E's " Blog ... Which I looked over with MUCH interest, LOTS goin' on there ...

One thing I WAS impressed with, that has always intrigued me for many a year - Is the picture (see link below) on his website
Of his " MTR " with new Battery Option ... AND ... Touch-Paddle ...

http://www.w0ea.us/search?updated-max=2013-08-19T06:16:00-07:00&max-results=7

MY QUESTION IS - Bearing In Mind, that we have differences between us Europeans & American side of things, in what we can get from suppliers or at the local hardware store - CAN SOMEONE TELL ME & PROVIDE A LINK (Perhaps) ...

What the little Chrome " Button " things are called in the picture above from W0EA's website, that he has implemented there in his design to make a " Touch Paddle " ?

I HAVE seen this very thing, many, many times on the internet over the years, but so far the NAME (Product Name perhaps) of the little " Button-thingys " there alludes me ... If I can find either a supplier here in the UK... or better still, some kind Radio Ham from somewhere who may be able to help sending me a half dozen (payment re-imburst obviously by me), that would be even better ...

But for the moment, I am just intrigued as to what these little " Buttons " are called, where one might get them (particularly in the UK) and PERHPAS if someone might upload a drawing of sorts into the files section here of the list - HOW TO MAKE a " Touch Paddle " from these very things, would be the icing-on-the-cake !...

Thanks For The Bandwidth Fella's ...

73's
Andy - GM0NWI
andy.gm0nwi1@...

12053. Re: [AT_Sprint] ... MTR Touch Paddle & Other Ideas ...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 19:38:22 UTC
From: Lee Hiers
Topic: 12052 Message: 12053

On Fri, Nov 8, 2013 at 11:28 AM, Andy - GM0NWI
<andy.gm0nwi1@...>wrote:

But for the moment, I am just intrigued as to what these little " Buttons "
> are called, where one might get them (particularly in the UK) and PERHPAS
> if
> someone might upload a drawing of sorts into the files section here of the
> list - HOW TO MAKE a " Touch Paddle " from these very things, would be the
> icing-on-the-cake !...
>
We call them "acorn nuts" - we use them at work for a project and get them
from Mutual Screw - I'm sure any supplier of hardware in the UK would have
them. Possibly called "cap nuts"...I'm sure there are other names as well.

http://www.mutualscrew.com/product/low-crown-steel-nickel-plated-2-piece-acorn-nuts-51055.
cfm?source=froogle&gclid=CI6QraT31boCFWtk7Aod_D4ALA

TJ may be using this board: I'd thought of putting one of these in my MTR
or ATS-3b: http://www.cwtouchkeyer.com/P3W.htm He can give more details
on his implementation.

I've made a test paddle just using some scrap PCB material for the paddles
along with this board and placed it temporarily (a year ago!) in a small
cardboard box: http://www.aa4ga.com/2012/05/spartan-sprint-may-2012.html

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

12054. Re: [AT_Sprint] ... MTR Touch Paddle & Other Ideas ...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 19:38:30 UTC
From: TJ Campie
Topic: 12052 Message: 12054

Andy! Thanks for the email - they're called "cap nuts" and should be easy
to find at the local hardware store. If you cannot find any, I will be
happy to send you a package.

http://www.ebay.com/itm/25-Nickel-Chrome-Plated-5-16-18-Acorn-Hex-Cap-Nuts-/360370683117

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
http://W0EA.us
Because QRO is too easy

On Fri, Nov 8, 2013 at 10:28 AM, Andy - GM0NWI
<andy.gm0nwi1@...>wrote:

>
>
> Fella's
>
> With all the chatter here on the reflector in the last few days, regarding
> new implantations or up-grades to the " MTR " Series of radio's ...
>
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>
>
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> 7
>
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> ...
>
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> from W0EA's website, that he has implemented there in his design to make a
> "

> Touch Paddle " ?
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> in the UK... or better still, some kind Radio Ham from somewhere who may be
> able to help sending me a half dozen (payment re-imburst obviously by me),
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>
> Thanks For The Bandwidth Fella's ...
>
> 73's
> Andy - GM0NWI
> andy.gm0nwi1@...
>
>
>

12055. Re: [AT_Sprint] ... MTR Touch Paddle & Other Ideas ...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 19:41:53 UTC
From: Stephen Rapley
Topic: 12052 Message: 12055

Hi Andy,
In VK we call them 'dome' nuts.
73
Stephen VK2RH

On 9 November 2013 06:38, Lee Hiers <lee.hiers@...> wrote:

>
>
> On Fri, Nov 8, 2013 at 11:28 AM, Andy - GM0NWI <
> andy.gm0nwi1@...> wrote:
>
> But for the moment, I am just intrigued as to what these little " Buttons "
>> are called, where one might get them (particularly in the UK) and PERHPAS
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> We call them "acorn nuts" - we use them at work for a project and get them
> from Mutual Screw - I'm sure any supplier of hardware in the UK would have
> them. Possibly called "cap nuts"...I'm sure there are other names as well.
>
>
> http://www.mutualscrew.com/product/low-crown-steel-nickel-plated-2-piece-acorn-nuts-5105
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>
> TJ may be using this board: I'd thought of putting one of these in my MTR
> or ATS-3b: http://www.cwtouchkeyer.com/P3W.htm He can give more details
> on his implementation.
>
> I've made a test paddle just using some scrap PCB material for the paddles
> along with this board and placed it temporarily (a year ago!) in a small
> cardboard box: http://www.aa4ga.com/2012/05/spartan-sprint-may-2012.html
>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>
> Submit your QRP DXCC totals to www.qrpdx.com!
>
>
>
>

12056. Re: [AT_Sprint] ... MTR Touch Paddle & Other Ideas ...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 19:46:47 UTC
From: TJ Campie
Topic: 12052 Message: 12056

Lee - yeah that is the board I used.

73, W0EA
TJ

QRP ARCI #14612 | CW Ops #953 | SKCC #4593T
NAQCC #3768 | Flying Pigs QRP #2254
Elecraft KX3 SN 288
http://W0EA.us
Because QRO is too easy

On Fri, Nov 8, 2013 at 1:38 PM, Lee Hiers <lee.hiers@...> wrote:

>
>
> On Fri, Nov 8, 2013 at 11:28 AM, Andy - GM0NWI <
> andy.gm0nwi1@...> wrote:
>
> But for the moment, I am just intrigued as to what these little " Buttons "
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> TJ may be using this board: I'd thought of putting one of these in my MTR
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>
> 73 de Lee
> --
> Lee Hiers, AA4GA
> www.aa4ga.com
>

> Submit your QRP DXCC totals to www.qrpdx.com!
>
>
>
>

12057. RE: ... MTR Touch Paddle & Other Ideas ...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 19:38:33 UTC
From: <srmaietta@...>
Topic: 12052 Message: 12057

Those chrome thingys are called (in the US) "Acorn Nuts"

~Steve

---In AT_Sprint@yahoogroups.com, <andy.gm0nwi1@...> wrote:

Fella's

With all the chatter here on the reflector in the last few days, regarding new implantations or up-grades to the " MTR " Series of radio's ...

Someone post a few days back a link to " W0E's " Blog ... Which I looked over with MUCH interest, LOTS goin' on there ...

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http://www.w0ea.us/search?updated-max=2013-08-19T06:16:00-07:00&max-results=
7

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Thanks For The Bandwidth Fella's ...

73's
Andy - GM0NWI

andy.gm0nwi1@... mailto:andy.gm0nwi1@...

12058. Re: ... MTR Touch Paddle & Other Ideas ...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 19:37:10 UTC
From: g0peb
Topic: 12052 Message: 12058

Hi Andy,

I think you might be refering to these 'acorn nuts'.

http://www.ebay.co.uk/itm/like/260787290609?hlpht=true&ops=true&viphx=1&lpid=95&device=c&adtype=pla&crdt=0&ff3=1&ff11=ICEP3.0.0&ff12=67&ff13=80&ff14=95&ff19=0

73 Rob G0PEB

--- In AT_Sprint@yahoogroups.com, "Andy - GM0NWI" <andy.gm0nwi1@...> wrote:
>
> Fella's
>
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> new implantations or up-grades to the " MTR " Series of radio's ...
>
> Someone post a few days back a link to " W0E's " Blog ... Which I looked
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> But for the moment, I am just intrigued as to what these little " Buttons "
> are called, where one might get them (particularly in the UK) and PERHPAS if
> someone might upload a drawing of sorts into the files section here of the

> list - HOW TO MAKE a " Touch Paddle " from these very things, would be the
> icing-on-the-cake !...
>
> Thanks For The Bandwidth Fella's ...
>
> 73's
> Andy - GM0NWI
> andy.gm0nwi1@...
>

12059. ... Cap Nuts & Acorn Nuts Enquiry SOLVED !! ...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 20:05:28 UTC
From: Andy - GM0NWI
Topic: 12059 Message: 12059

Fella's

What A Wonderful Group !

" Shout Out To T.J. Campie - W0EA " .... and ALL the other so kind folks here on the list that have sent me the answers to this question in the last hour or so ! - Problem SOLVED ...

This for " me " (laugh if you like) was a thing that has had me stumped for YEARS ! - I have seen those " Cap - Acorn Nuts " many a time, particularly with folks like Hans - W1JSB and his creations when implemented as some form of Keyer Paddles, but I had NEVER known the proper name ...

2 Folks Already (T.J Himself too !) have sent me links to both a US Vendor & a British Vendor for these very things, so I have to say - THANKYOU Fella's for all you have done tonight ...

I have learned something today,... all that remains now is to try & track down some kind of diagram to help with the building of such a " Touch Keyer " that might possibly implement these very things - I am NOT so good at figuring out photographs that show this sort of thing unfortunately...

The 2nd Part Of The Search Continues ...

Stay Tuned !

73's
Andy - GM0NWI
andy.gm0nwi1@...

12060. Re: [AT_Sprint] Re: MTR Touch Paddle

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-08 21:27:05 UTC
From: John - VE4JWC
Topic: 12044 Message: 12060

Thanks for the replies everyone, I will experiment a bit with it still,
but I may have to splurge and order a couple of QT1011's
http://www.digikey.ca/product-detail/en/AT42QT1011-TSHR/AT42QT1011-TSHRCT-ND/2268873

or something similar to get this running the way I want it to.

VE4JWC - John

On 11/8/2013 10:07 AM, Steven Weber wrote:
>> It probably works fine in the home with a wall-wart because your body is
>> picking up enough 60Hz to turn on the Darlington pair. There is no 60 Hz
>> in the woods.
>>
> Yep, that's the reason, no AC pick up to trigger it. I belive I've seen
> touch switch designs which used an oscillator to provide the AC signal. The
> finger is used to capacitively couple the AC signal to the detector.
>
> Using skin resistance by it's self isn't very reliable.
>
> Steve KD1JV
>
>
>
> ------------------------------------
>
> Yahoo Groups Links
>
>
>

12061. Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-09 04:03:08 UTC
From: XV4Y (Yan)
Topic: 11924 Message: 12061

Hi Steve, folks,

First, the MTR perfectly fulfilling my portable needs (except for 10 or 12m possible coverage but I understand the restriction) I am not planning to buy any "MTR/ATS" anytime soon.
Something like the ATS-4 could be better, but the added features will make it above the budget I can afford for my small portable operations.
I agree a KX3 would be the dream transceiver to me. However, for its price I prefer to improve my home stations aerials.
Given that, all what I am saying here below is "free talk" and the expression of my very own opinion...

I agree with Gil that the ATS/MTR receiver does not need improvements :
- No need for better strong signal handling. The MTR purpose is SOTA-like operation or "back-packing" portable. It should not be connected to antennas with gain.
- No need for more sensitivity. On the target bands (80->15m), the noise is often limiting the weaker signal you can hear. Even more, with 5W output, you will not be able to work the weaker signal you may hear.
- No need for better IF filtering. 600Hz is the perfect choice for both "tuning the band" and having a QSO not being disturbed by close (but not too) signals. This is not a contest rig.
Except by totally changing the architecture, any improvement would be to the detriment of other important aspects : current draw, circuit size, cost...
Steve may want to explore other designs, but I have no competence to give advices about that.

About the SWL feature, this may be interesting but the additional circuitry will make the whole RX bigger and more expensive. Another important point is that as it is designed, the MTR tuning method (UP/DWN and DFE) is not well adapted to SWLing. Having a simple and lightweight BCL with AM/FM coverage in your backpack would be more pertinent to me.

An audio DSP feature is something I think useful and I understand one would like to explore this technology. Here I have a TI LaunchPad Stellaris (Cortex M4) that I wanted to use to do I/Q demodulation and light DSP like processing. However I currently have no spare time for this project.
Adding a DSP audio filter would help fighting against the noise and "weak" close-by QRMing signals.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

> We should all be happy to get one extra band, which for me would mean being able to operate on contest days on 30m. Add DSP and that's all I could possibly ask for.. Well, SWL maybe ;-)
>
> Adding a 3d band doesn't impact the cost or size too much, so I think that will be a given. I might kick up the DDS clock speed to 50 MHz so 17M could be added to the mix.
>
> SWL capability is a bit more complicated. There are a couple of issue there, one is the crystal IF fitler is a bit narrow for voice and making it adjustable bandwidth degrades it's performance where you really need it - CW reception. The other is the BFO frequency really needs to be reset also.
>
> However, it just occured to me there is a spare output on the 1st mixer. This could be routed to a spare input on the miniDSP chip and the VFO reset to make this a Direct Conversion receiver. Humm, might not be enough gain without an intermediate audio amp, but then for SWL might not need it. Would be worth a try.
>
> I think I'll stick to the single LED digit for display. Even a mini chip-on-glass 2x16 LCD takes up too much space.
>
> For packaging, I think I'll make the case as low profile as possible. If you take a standard 8.5" x 11" clip board and cut it in half, you can mount the rig and paddle at the top of the board and have enough room for some paper to log on below it. Use rubber bands to hold stuff to the board.
>
> There is just enough surface area to hold the clip board on your lap, making a convenient operating table while sitting on a rock or a log.
>
> 72, Steve KD1JV

12062. Re: [AT_Sprint] Re: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-09 13:31:59 UTC
From: Micah Reese
Topic: 11924 Message: 12062

Here's an idea for you, Steve. Build it small, light, and with minimal features, BUT have the capability to expand it. I'm thinking along the lines of Arduino. For example, have some GPIO pins where someone could add a larger display. Or another direction would be to have the radio operate stand-alone, but build the form factor with IO pins that would allow it to act as an Arduino shield. That would allow people to go crazy with expansion/customization.

Sent from Yahoo Mail on Android

12063. RE: Next generation of the MTR...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-09 15:59:20 UTC
From: <jgaffke@...>
Topic: 11924 Message: 12063

---In at_sprint@yahoogroups.com, <reesemn@...> wrote:
... Build it small, light, and with minimal features, BUT have the capability to expand it.
... have some GPIO pins where someone could add ...

I'm all for that. Patterned on the MTR size and power wise, with 38 pin MSP430 (or Tiva?) Could be tough to find room for 10 more traces and through hole pads. Perhaps the holes could be drilled in under the four switches, put mylar or teflon tape down under the switches if you care about ever using the expanded IO. If the miniDSP gets in there, would also be nice to have a way to get a daughterboard to talk to the two miniDSP inputs and to the RF in. So an MTR sized board for the basic radio, and a second MTR sized board that mounts under it for user hacks. Could be many different such secondary boards built. Maybe autostuff all surface mount parts on one side of the basic radio in enough volume to meet demand for those that want a partially assembled radio. I got a rough quote of $20/board to do such an autostuff from a local assembly house. KE7ER

at).

12064. MBDC transformer winding

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-10 16:03:29 UTC
From: Hinds, Don
Topic: 12064 Message: 12064

I'm just about finished with assembly and have started fitting the case but I am a little confused about winding T1. In the toroid list, it is described as six turns. In the detail instructions, it is listed as eight turns. In the picture, the toroid seems to only have five turns. It probably isn't critical, but I wanted to check. I would hate having to pull it off and re-wind it.

Can anybody shed some light on my confusion?

73,

Don

WD4ON

12065. Re: [AT_Sprint] MBDC transformer winding

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-10 16:41:48 UTC
From: Steven Weber
Topic: 12064 Message: 12065

It doesn't really matter. I think I settled on 6 turns in the last rev of the manual, but if you have 8, that will work just as well.

The picture is just to illustrate how it's wound and is generic in that I use that same picture every time I have to show how to wind a core like that.

Steve KD1JV

I'm just about finished with assembly and have started fitting the case but I am a little confused about winding T1. In the toroid list, it is described as six turns. In the detail instructions, it is listed as eight turns. In the picture, the toroid seems to only have five turns. It probably isn't critical, but I wanted to check. I would hate having to pull it off and re-wind it.

12066. RE: [AT_Sprint] MBDC transformer winding

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-10 16:47:57 UTC
From: Hinds, Don
Topic: 12064 Message: 12066

Thanks Steve, I just wanted to be sure. Now, time to finish that radio!

73,

Don

WD4ON

12067. ON THE AIR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-11 04:00:36 UTC
From: <wlinn.linn@...>
Topic: 12067 Message: 12067

Steve's done it again. put my MBDC on the air yesterday and since then, have logged several QSO'S including one on 160 meters. Steady as a rock and easy to set up.

i do have a question, however. I may be missunderstanding how to work the RIT but mine seems to work differently than any other I've used. A RIT is supposed to change only the receive frequency, right? When I turn on My RIT and attempt to adjust the receive frequency, the transmit frequency is also changed. So, if I want to transmit on 3.560 I set the LCD to read 3.560.600 then, turn on the RIT and adjust it to -600. This puts me smack dab on 3.560. However, if I want to change the receiver frrequency, the xmit changes also. What am I missing.

Bill - W7WEL

12068. Re: [AT_Sprint] ON THE AIR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-11 16:52:43 UTC
From: Steven Weber
Topic: 12067 Message: 12068

Oh Man, I can't belive I screwed that up! I got to stop working on these things so late at night :(

It appers that the transmit frequency is still tuning with the receive frequency when RIT is turned on. Then when you transmit, it transmits on the RIT frequency and then switches to what should have been the transmit frequency for receive - backwards of what it should be doing.

That's got to be confusing.

Okay, there is only one way to make this right and that is to send everyone a new processor. I'll do that as soon as possible, but I will have to buy a new batch of chips and some mailers, so it will take a couple of weeks to get them all out. Once you get the new chip, you can send the original back if you like, as I can recyle them.

One problem is I didn't save all the mailing address label files I made, or all the envelopes checks came in. I'll try to figure it all out. I should however have all the email address, so I'll do my best to figure it out.

Steve KD1JV

i do have a question, however. I may be missunderstanding how to work the RIT but mine seems to work differently than any other I've used. A RIT is supposed to change only the receive frequency, right? When I turn on My RIT and attempt to adjust the receive frequency, the transmit frequency is also changed. So, if I want to transmit on 3.560 I set the LCD to read 3.560.600 then, turn on the RIT and adjust it to -600. This puts me smack dab on 3.560. However, if I want to change the receiver frrequency, the xmit changes also. What am I missing.

Bill - W7WEL

12069. RE: Re: [AT_Sprint] MBDC transformer winding

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-11 17:52:57 UTC
From: <ke5c@...>
Topic: 12064 Message: 12069

Nuts! I did that last night, and was confused too. The picture shows 4 full turns, and the instructions said eight, so I thought each wire was counted twice (2 X 4 = 8). Oh well, won't be the first torroid I've redone.

73--john

---In AT_Sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

It doesn't really matter. I think I settled on 6 turns in the last rev of the manual, but if you have 8, that will work just as well.

The picture is just to illustrate how it's wound and is generic in that I use that same picture every time I have to show how to wind a core like that.

Steve KD1JV

I☐m just about finished with assembly and have started fitting the case but I am a little confused about winding T1. In the toroid list, it is described as six turns. In the detail instructions, it is listed as eight turns. In the picture, the toroid seems to only have five turns. It probably isn☐t critical, but I wanted to check. I would hate having to pull it off and re-wind it.

12070. RE: Re: [AT_Sprint] ON THE AIR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-11 20:06:10 UTC
From: <wlinn.linn@...>
Topic: 12067 Message: 12070

Thanks Steve, and sorry it turned out not an easy fix for your sake. I'm getting good comments on the signal, one guy running a K3 with a pan-adapter said the signal was the cleanest he's seen since he's been using it. So, it is a winner!

I'll dig up your email address and send you my mailing address via your personal email.

Regards,
Bill - W7WEL

2029 Elm Drive
St. Maries, ID 83861

---In AT_Sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

☐ Oh Man, I can't belive I screwed that up! I got to stop working on these things so late at night :(

It appers that the transmit frequency is still tuning with the receive frequency when RIT is turned on. Then when you transmit, it transmits on the RIT frequency and then switches to what should have been the transmit frequency for receive - backwards of what it should be doing.

That's got to be confusing.

Okay, there is only one way to make this right and that is to send everyone a new processor. I'll do that as soon as possible, but I will have to buy a new batch of chips and some mailers, so it will take a couple of weeks to get them all out. Once you get the new chip, you can send the original back if you like, as I can recyle them.

One problem is I didn't save all the mailing address label files I made, or all the envelopes checks came in. I'll try to figure it all out. I should however have all the email address, so I'll do my best to figure it out.

Steve KD1JV

i do have a question, however. I may be missunderstanding how to work the RIT but mine seems to work differently than any other I've used. A RIT is supposed to change only the receive frequency, right? When I turn on My RIT and attempt to adjust the receive frequency, the transmit frequency is also changed. So, if I want to transmit on 3.560 I set the LCD to read 3.560.600 then, turn on the RIT and adjust it to -600. This puts me smack dab on 3.560. However, if I want to change the receiver frrequency, the xmit changes also. What am I missing.

Bill - W7WEL

12071. Found a new carrying case for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-11 21:40:59 UTC
From: <f_skinner@...>
Topic: 12071 Message: 12071

I do not usually think about how to package my radios as long as everything fits in my pack along with everything else I need but I found a neat little pouch on base today.

I did a little write up here: http://k0jqz.blogspot.com http://k0jqz.blogspot.com along with other ramblings.

Thank you Veterans.

12072. MBDC RIT problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-11 22:17:16 UTC
From: Steven Weber
Topic: 12072 Message: 12072

After thinking about this, I might have jumped the gun. The "fix" maybe as simple as re-writting the instructions. For what I implented is XIT, not RIT. Which might actually be easier to use.

The way it works now as XIT:

As your tuning UP in freqeuncy, you hear a station and the beat note is decending, indicating your tuning in from below thier frequency.

o. When you get to the nominal 600-700 Hz note, active RIT. This will set your receive frequency.

o. Now continue to tune UP until you get a zero beat. Now the transmit frequency will match the other stations.

o. Tap the paddle and the receive frequecy will be set to where you were when RIT was activted. Any tuning now will affect the transmit frequency, so it's not advised to so.

If you tune past the stations zero beat and the tone is accending, you would need to tune down after activting RIT to match the stations frequency.

What do you all think of the above method? The only problem I see with it is once set, you can't tweak the Rx frequency.

I aready order the new chips and fixed the program to work as it should have (I had a true / false flag test backwards, duhh) so, I guess I'll send out new processors anyway. But I might add this XIT mode back in as an option. There are advantages to both methods...

Steve KD1JV

Thanks Steve, and sorry it turned out not an easy fix for your sake. I'm getting good comments on the signal, one guy running a K3 with a pan-adapter said the signal was the cleanest he's seen since he's been using it. So, it is a winner!

12073. Re: [AT_Sprint] Found a new carrying case for the MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-11 22:16:23 UTC
From: Hank Greeb
Topic: 12071 Message: 12073

I like the pictures of your "SOTA Cat." We have two cats, and sometimes one or the other wants to sit on the computer table, and even on the keyboard. I tolerate this activity unless I'm in the heat of a contest. :)

72/73 de n8xx Hg
QRP >99.44% of the time

On 11/11/2013 4:40 PM, f_skinner@... wrote:
>
>
> I do not usually think about how to package my radios as long as
> everything fits in my pack along with everything else I need but I
> found a neat little pouch on base today.
>
> I did a little write up here: http://k0jqz.blogspot.com along with
> other ramblings.
>
> Thank you Veterans.

12074. Re: [AT_Sprint] MBDC RIT problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-11 22:38:33 UTC
From: Richard F5VJD
Topic: 12072 Message: 12074

Hi Steve

Given the pressure we all put you under to get our new toys out the door as fast as possible, it's remarkable and a tribute to your excellent engineering skills that the final products contain few if any errors.

Speaking for myself, whilst I can see that XIT would enable one to have QSOs, we would lose the traditional function of RIT - chasing a drifting signal - and also lose the invaluable facility for a DC receiver of being able to tune in either side-band depending on QRM. So sorry Steve, my vote is for a 'proper' RIT implementation.

Keep smiling

72/3

Richard F5VJD

On 11/11/2013 23:17, Steven Weber wrote:
>
> □
>
> After thinking about this, I might have jumped the gun. The "fix"
> maybe as simple as re-writting the instructions. For what I implented
> is XIT, not RIT. Which might actually be easier to use.
> The way it works now as XIT:
> As your tuning UP in freqeuncy, you hear a station and the beat note
> is decending, indicating your tuning in from below thier frequency.
> o. When you get to the nominal 600-700 Hz note, active RIT. This will
> set your receive frequency.
> o. Now continue to tune UP until you get a zero beat. Now the transmit
> frequency will match the other stations.
> o. Tap the paddle and the receive frequecy will be set to where you
> were when RIT was activted. Any tuning now will affect the transmit
> frequency, so it's not advised to so.
> If you tune past the stations zero beat and the tone is accending, you
> would need to tune down after activting RIT to match the stations
> frequency.
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> it is once set, you can't tweak the Rx frequency.
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> should have (I had a true / false flag test backwards, duhh) so, I
> guess I'll send out new processors anyway. But I might add this XIT
> mode back in as an option. There are advantages to both methods...
> Steve KD1JV
>

> Thanks Steve, and sorry it turned out not an easy fix for your
> sake. I'm getting good comments on the signal, one guy running a
> K3 with a pan-adapter said the signal was the cleanest he's seen
> since he's been using it. So, it is a winner!
>
>

12075. Re: [AT_Sprint] MBDC RIT problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-11 22:43:52 UTC
From: Hank Greeb
Topic: 12072 Message: 12075

I thimk the RIT is what most people use and understand.

How far off can the RIT be? I have an older rig with the RIT span only about 2 KHz, which is often not enough for DXpeditions. If I want to work these folks, I need to hook up a 2nd receiver, an antenna T/R switch, and be careful NOT to transmit before the T/R switch actually gets engaged.

You're a jewel.

72/73 de n8xx Hg
QRP >99.44% of the time

On 11/11/2013 5:17 PM, Steven Weber wrote:
> □
>
> After thinking about this, I might have jumped the gun. The "fix"
> maybe as simple as re-writting the instructions. For what I implented
> is XIT, not RIT. Which might actually be easier to use.
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> set your receive frequency.
> o. Now continue to tune UP until you get a zero beat. Now the transmit
> frequency will match the other stations.
> o. Tap the paddle and the receive frequecy will be set to where you
> were when RIT was activted. Any tuning now will affect the transmit
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> mode back in as an option. There are advantages to both methods...
> Steve KD1JV
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> Thanks Steve, and sorry it turned out not an easy fix for your
> sake. I'm getting good comments on the signal, one guy running a
> K3 with a pan-adapter said the signal was the cleanest he's seen
> since he's been using it. So, it is a winner!
>

12076. Re: [AT_Sprint] MBDC RIT problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-12 00:25:27 UTC
From: John Roland
Topic: 12072 Message: 12076

Gang,
I just got my mbdc in the box and discovered the RIT problem when trying to answer a CQ. On a quick read the work around seems awkward but perhaps new chips are on the way. In my brief experience with the rig I was wishing it would retain the code speed after power down, mine goes back to 20 wpm after power down. I would also prefer that it remembered the last operating frequency. Neither are show stoppers, but maybe something to think about in the next run.
I had fun building the rig. Only problems were installing my last resistor (R32) without double checking it and ended up with a 220k rather than a 22k. You don't have filter switch when that happens. I also had trouble recognizing two bad solder joints on the display. You get an erratic display when that happens - I was afraid I had toasted the processor. I am hearing more of a pop than I'm used to when the qsk switches back to receive - I wonder if a component tweak might fix that?
Thanks Steve for another fun little rig. /John W7SWB
On Nov 11, 2013 2:17 PM, "Steven Weber" <steve.kd1jv@...> wrote:

>
>
> □
> After thinking about this, I might have jumped the gun. The "fix" maybe as
> simple as re-writting the instructions. For what I implented is XIT, not
> RIT. Which might actually be easier to use.
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> The way it works now as XIT:
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> decending, indicating your tuning in from below thier frequency.
>
> o. When you get to the nominal 600-700 Hz note, active RIT. This will set
> your receive frequency.
>
> o. Now continue to tune UP until you get a zero beat. Now the transmit
> frequency will match the other stations.
>
> o. Tap the paddle and the receive frequecy will be set to where you were
> when RIT was activted. Any tuning now will affect the transmit frequency,
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> If you tune past the stations zero beat and the tone is accending, you
> would need to tune down after activting RIT to match the stations
> frequency.
>
> What do you all think of the above method? The only problem I see with it

> is once set, you can't tweak the Rx frequency.
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> Steve KD1JV
>
> Thanks Steve, and sorry it turned out not an easy fix for your sake. I'm
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> pan-adapter said the signal was the cleanest he's seen since he's been
> using it. So, it is a winner!
>
>
>
>
>

12077. Re: Re: [AT_Sprint] MBDC transformer winding

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-11 18:08:19 UTC
From: Ted Groke
Topic: 12064 Message: 12077

Hi Steve and MBDC builders,

I guess I'll have to rewind my transformer as I thought the same, i.e., 2X4=8. So what is the correct number of bifiler turns, 6 or 8?

Ted, W2TAG

On Mon, Nov 11, 2013 at 12:52 PM, <ke5c@hot.rr.com> wrote:

>
>
> Nuts! I did that last night, and was confused too. The picture shows 4
> full turns, and the instructions said eight, so I thought each wire was
> counted twice (2 X 4 = 8). Oh well, won't be the first torroid I've redone.
>
>
> 73--john
>
>
> ---In AT_Sprint@yahoogroups.com, <steve.kd1jv@...> wrote:
>
> It doesn't really matter. I think I settled on 6 turns in the last rev of
> the manual, but if you have 8, that will work just as well.
>
> The picture is just to illustrate how it's wound and is generic in that I
> use that same picture every time I have to show how to wind a core like
> that.
>
> Steve KD1JV
>
> I’m just about finished with assembly and have started fitting the case
> but I am a little confused about winding T1. In the toroid list, it is
> described as six turns. In the detail instructions, it is listed as eight
> turns. In the picture, the toroid seems to only have five turns. It
> probably isn’t critical, but I wanted to check. I would hate having to
> pull it off and re-wind it.
>
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>
>

12078. Re: Re: [AT_Sprint] MBDC transformer winding

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-12 02:59:30 UTC
From: Steven Weber
Topic: 12064 Message: 12078

I guess I'll have to rewind my transformer as I thought the same, i.e., 2X4=8. So what is the correct number of bifiler turns, 6 or 8?

Again, it doesn't matter. 6 is okay and 8 isn't going to hurt. Heck, spit the difference and use 7 :)

12079. Re: [AT_Sprint] MBDC RIT problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-11 22:53:03 UTC
From: Randy Moore
Topic: 12072 Message: 12079

Hi Steve,

Given that this kind of thing happens from time to time, I wonder if you would consider for future rigs (hopefully quite a number!) providing for firmware updates in the field through an outboard box. You might be able to create a kit for the box, and a connector on the rig to do the load to the processor. The box would have a serial connector (USB probably) for connection to the PC. A chunk of software would have to run on the PC to supervise the transfer.

What do you think?

73,
Randy, KS4L

12080. RE: Re: [AT_Sprint] ON THE AIR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-12 14:45:40 UTC
From: <xv4y@...>
Topic: 12067 Message: 12080

Hi Steve,

Well, for me no need to send a new MCU :
- first I don't plan to use RIT on this transceiver,
- second, I am pretty sure I can reprogram using a cheap Arduino as ISP if you don't mind to send me the .hex file.

73,
Yan - XV4Y
---
http://www.qscope.org/

---In AT_Sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

☐ Oh Man, I can't belive I screwed that up! I got to stop working on these things so late at night :(

It appers that the transmit frequency is still tuning with the receive frequency when RIT is turned on. Then when you transmit, it transmits on the RIT frequency and then switches to what should have been the transmit frequency for receive - backwards of what it should be doing.

That's got to be confusing.

Okay, there is only one way to make this right and that is to send everyone a new processor. I'll do that as soon as possible, but I will have to buy a new batch of chips and some mailers, so it will take a couple of weeks to get them all out. Once you get the new chip, you can send the original back if you like, as I can recyle them.

One problem is I didn't save all the mailing address label files I made, or all the envelopes checks came in. I'll try to figure it all out. I should however have all the email address, so I'll do my best to figure it out.

Steve KD1JV

i do have a question, however. I may be missunderstanding how to work the RIT but mine seems to work differently than any other I've used. A RIT is supposed to change only the receive frequency, right? When I turn on My RIT and attempt to adjust the receive frequency, the transmit frequency is also changed. So, if I want to transmit on 3.560 I set the LCD to read 3.560.600 then, turn on the RIT and adjust it to -600. This puts me smack dab on 3.560. However, if I want to change the receiver frrequency, the xmit changes also. What am I missing.

Bill - W7WEL

12081. Re: [AT_Sprint] Digest Number 2151

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-12 18:55:07 UTC
From: Bob Stephens
Topic: 12081 Message: 12081

73 de AF9W
Bob Stephens

12082. MBDC Popping Speaker When Keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-12 20:16:17 UTC
From: Blinn
Topic: 12082 Message: 12082

Someone mentioned popping noise in the speaker as the rig is keyed on and off. Mine is so loud that I have to resort to turning the volume down to its lowest point. Of course this makes QSK unusable. I'm sure that Steve or some other guru can guide us through a fix. With the RIT fixed and the popping reduced to a tolerable level, this rig will be among the best out there, including factory made stuff.

Bill - W7WEL

Sent with AquaMail for Android
http://www.aqua-mail.com

12083. RE: MBDC Popping Speaker When Keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-12 23:46:46 UTC
From: <wlinn.linn@...>
Topic: 12082 Message: 12083

Did a bit more experimenting. I've been using the straight key mode and this is when the popping is intolerable. As an afterthought, I plugged. In a paddle to use the internal Meyer. The popping is much reduced, it is still there but I can live with it by using the internal Peter. Still, using a external Meyer, bug, or st key is out of the question. Would like feedback from others who have tried both keying modes. Thanks. Bill

12084. RE: MBDC Popping Speaker When Keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-13 00:50:20 UTC
From: <wlinn.linn@...>
Topic: 12082 Message: 12084

Don't ya just love those auto-correcting, single finger on-screen key boards! Change Peter to keyer and Meyer to keyer, to make the text correct.

12085. Re: [AT_Sprint] RE: MBDC Popping Speaker When Keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-13 01:55:50 UTC
From: Hank Greeb
Topic: 12082 Message: 12085

"Popping" is something for which I'd need to make an outboard limiter -
I can't use one of those infernal electronic keyers.

72/73 de n8xx HG
QRP >99.44% of the time

On 11/12/2013 6:46 PM, wlinn.linn@... wrote:
>
>
> Did a bit more experimenting. I've been using the straight key mode
> and this is when the popping is intolerable. As an afterthought, I
> plugged. In a paddle to use the internal Meyer. The popping is much
> reduced, it is still there but I can live with it by using the
> internal Peter. Still, using a external Meyer, bug, or st key is out
> of the question. Would like feedback from others who have tried both
> keying modes. Thanks. Bill

12086. Re: [AT_Sprint] RE: MBDC Popping Speaker When Keying

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-13 02:29:16 UTC
From: Steven Weber
Topic: 12082 Message: 12086

I only recently used a SK on my unit also noticed the problem.

I belive this is caused by the mixer, which is producing a DC output when transmitting. Although the QSK switch removes most the transmitted signal from the input to the mixer, some gets through. Not enough to hurt anything, but enough to make a bit of a spike when coming out of transmit.

When using the paddle, there is enough of a delay before the mute is disabled that most of that spike has rippled through the various stages. If one or both of the bandpass filters are selected, that also helps reduce the thump.

But apparently when using a Straight Key, I didn't allow enough of a delay between key up and and un-muting, hence the big thump.

The short term fix will be to increase the delay between key up and un-muting in software. I think long term the fix will be to disable the mixer with it's enable pin when transmitting. Unfortunetly, that pin has the opposite "sense" (low vs high) from the Mute control so an inverter has to be added.

But there is one already, the auxilery mute output mosfet. One would have to isolate the enable pin on the 74HC4053 (pin 6, the simplest way of doing that would be to bend the pin up so it doesn't go into the socket) and add a pull up resistor to the +5. (pretty much any value will do, say 1K to 100K) I haven't tried this yet, but I think it would help a lot.

73, Steve KD1JV

Did a bit more experimenting. I've been using the straight key mode and this is when the popping is intolerable. As an afterthought, I plugged. In a paddle to use the internal Meyer. The popping is much reduced, it is still there but I can live with it by using the internal Peter. Still, using a external Meyer, bug, or st key is out of the question. Would like feedback from others who have tried both keying modes. Thanks. Bill

12087. Re: [AT_Sprint] MBDC RIT problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-13 02:53:54 UTC
From: Steven Weber
Topic: 12072 Message: 12087

I don't have to re-invent the wheel, there are inexpensive ISP (In Circuit Programmers) available for the Atmel AVR chips. Spark Fun is one place to get one. Anyone playing with the Ardinu likely has one already.

However, I didn't add a convenient row of pads for ISP header pins to the board. Kinda slipped my mind. It would be easy enough to add a connector though, it's only 5 pins you'd need to jumper over to.

I might as well put the source and hex files in the MBDC folder for anyone who can reflash their processor and/or wants to try and figure out my source code and make changes or add features.

Steve

> Hi Steve,
>
> Given that this kind of thing happens from time to time, I wonder if you
> would consider for future rigs (hopefully quite a number!) providing for
> firmware updates in the field through an outboard box. You might be able
> to create a kit for the box, and a connector on the rig to do the load to
> the processor. The box would have a serial connector (USB probably) for
> connection to the PC. A chunk of software would have to run on the PC to
> supervise the transfer.
>
> What do you think?
>
> 73,
> Randy, KS4L

12088. RE: Re: [AT_Sprint] MBDC RIT problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-13 05:40:35 UTC
From: <ke5c@...>
Topic: 12072 Message: 12088

Don't worry about me stealing your code; I can't even copy your torroids :-)

73--john

12089. MBDC thump fix

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-14 16:35:37 UTC
From: Steven Weber
Topic: 12089 Message: 12089

I finally tracked down the cause of the audio thump coming out of transmit and found a fix. Unfortunetly, it's a hardware fix, not a software one but it's not too bad.

The "thump" is caused when the QSK switch is turned back on. Since there is no thump if the input coupling cap is disconnected from the PA (by putting the slide switch in the external receiver antenna position), a charge must be building up on the cap which gets dumped into the mixer when the QSK switch turns back on. Because of all the gain after the mixer, it doesn't take much of a glitch there to end up as a pretty loud thump in the output. Anyone remember the famed 38 special rig with it's impossible to tame thump?

Therefore, the fix is to first turn on the QSK switch, then un-mute the audio a few milliseconds later once the thump glitch has propagated throught the ampifiers. Ideally, I'd have an I/O port to control the QSK switch and audio mute switch seperately, but I don't. So, we have to do it the hard way.

The "FIX" is to add a resistor and diode to the mute control line going to the 4066 control input.

The resistor in combination with the 0.1 ufd cap already on that line form a delay to turn the audio mute on a few milliseconds after the QSK switch turns on. The diode is across the resistor to eliminate that delay so the audio will be muted right away on key down.

Two cuts have to be made to the track going to the 4066 and 2N7000 gate and a jumper installed.

The value of the resistor isn't overly critical, anything from 220 K to 1 Meg will work. I'll supply these parts when I send everyone a new processor. I'll also make an addendum showing the mod as a seperate file, but I will also add it to the manual. Hopefully I'll have that ready later tonight.

72, Steve KD1JV

12090. Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-14 19:02:55 UTC
From: Steven Weber
Topic: 12090 Message: 12090

So far I've had a few requests to make changes to the firmware. Before I start sending out new processors, I wonder if there are any other changes you might want, assuming I have room for them in the program memory - which is fairly close to full so we can't get too carried away, hi.

Suggestions summited so far are:

1, allow transmitting below 500 kHz so the rig can be used on the new 600 meter MF band if and when it eventually gets allocated for general use.

I will try to make that a programmable option so that those who do not want to transmit there won't have to worry about accidently doing so and risk damage to the PA.

2, store the current code speed so you don't have to reset it everytime you turn on the rig.

This I can do.

3, store the current frequency so it comes back to that frequency when turning on the rig.

This I'd rather not do. The EEPROM has a finite number of writes, 100,000 give or take a few. Since we don't know when your about to turn the rig off, the current frequency would have to be stored often. That would use up our 100K writes pretty quickly.

Maybe I can make that a manual operation so you can store a start up frequency if you have a local net or something you want the rig to power up on.

I'm also thinking of allowing you to choose which bands the rig can transmit on. Doing this would replace the default bands selections of 160 and 80, not add to it. You would of course have to change the transmit filters to match the new band or bands.

Let me know what you think and I'll go check to see how much memory I have left to make these changes. And if anyone can reflash the processor on thier own and could test the firmware for me to make sure I didn't mess anything up, that would be great!

Steve KD1JV

12091. RE: [AT_Sprint] Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-14 19:55:57 UTC
From: Dale Putnam
Topic: 12090 Message: 12091

Hi Steve, This has been covered maybe?? Would it be possible to let it remember where the rit or xit was left? not necessary when power down, but during qso, or operating time on, it would be handy to use rit.. tune up... drop back to tx freq, hit rit be back where it was left... tune a bit more while still on rit... drop back to the xmit freq, then recheck the rit freq where it was left.
Thank you, great radio!!

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: steve.kd1jv@gmail.com
Date: Thu, 14 Nov 2013 14:02:55 -0500
Subject: [AT_Sprint] Other firmware mod ideas?

□

So far I've had a few requests to make
changes to the firmware. Before I start sending out new processors, I
wonder if there are any other changes you might want, assuming I have room for
them in the program memory - which is fairly close to full so we can't get too
carried away, hi.

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programmable option so that those who do not want to transmit there won't have
to worry about accidently doing so and risk damage to the PA.

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to reset it everytime you turn on the rig.

This I can do.

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to that frequency when turning on the rig.

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has a finite number of writes, 100,000 give or take a few. Since we don't know
when your about to turn the rig off, the current frequency would have to be
stored often. That would use up our 100K writes pretty quickly.

Maybe I can make that a manual
operation so you can store a start up frequency if you have a local net or
something you want the rig to power up on.

I'm also thinking of allowing you
to choose which bands the rig can transmit on. Doing this would replace the
default bands selections of 160 and 80, not add to it. You would of course have
to change the transmit filters to match the new band or bands.

Let me know what you think and I'll go check to
see how much memory I have left to make these changes. And if anyone can reflash
the processor on thier own and could test the firmware for me to make sure
I didn't mess anything up, that would be great!

Steve KD1JV

12092. RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-14 20:50:06 UTC
From: <m.r.johnson4715@...>
Topic: 12090 Message: 12092

Hi Steve and Group,
I have my MBDC up and running in a temporary PCB enclosure, with around 5 watts out on both bands.
Having managed a few QSO's with good reports by calling stations using the XIT procedure described and confusing a station and myself by trying to tweak the receive frequency mid QSO... bring on the new processor.
With regards changes to the firmware, store of the current code speed would be good and the chance a 500 kcs output great as I am xtal controlled on that band (472 KHz) at present.
Thanks Steve for another great project.
vy 73 Mike g0bpu

---In AT_Sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

☐ So far I've had a few requests to make changes to the firmware. Before I start sending out new processors, I wonder if there are any other changes you might want, assuming I have room for them in the program memory - which is fairly close to full so we can't get too carried away, hi.

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I'm also thinking of allowing you to choose which bands the rig can transmit on. Doing this would replace the default bands selections of 160 and 80, not add to it. You would of course have to change the transmit filters to match the new band or bands.

Let me know what you think and I'll go check to see how much memory I have left to make these changes. And if anyone can reflash the processor on thier own and could test the firmware for me to make sure I didn't mess anything up, that would be great!

Steve KD1JV

12093. Re: [AT_Sprint] RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-15 14:50:42 UTC
From: Michael O'Bannon
Topic: 12090 Message: 12093

Steve,

When the design was first announced, you mentioned that it would also work on higher bands. Would it be possible to add support for 40m and 30m to the software?

73,
Michael KD4SGN

12094. Re: [AT_Sprint] RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-15 16:58:46 UTC
From: Steven Weber
Topic: 12090 Message: 12094

> When the design was first announced, you mentioned that it would also
> work on higher bands. Would it be possible to add support for 40m
> and 30m to the software?
>
> 73,
> Michael KD4SGN

Yes, I'm trying to figure out how to do that right now. I've only about 300 bytes left to work with to add a routine which would allow you to select which bands to use. At about 2 AM this morning I decided I wasn't making any progress and had better call it quits before I started making serious mistakes, hi.

My original reasoning for picking 160 and 80 as the "default" bands was two fold. One, these are neglected bands in the kit community and two, thier usually not so busy most of the time that a DC receiver with fairly wide bandwidth isn't a big problem.

40 is usually active enough that using a DC receiver can be a trying experiance and the same goes for 20. 30 probably isn't too bad. Anyway, most of you guys have a shelf full of rigs to work 40 and 30 which was another reason to focus on the "top" bands.

But what the heck, any band up to 10M is possible with this DDS, so why not? However, one might have stability problems with the PA above 20 meters. I've found it to be very touchy to the filter and lead lengths from the PA to the filter at high frequencies. You might need to buy a fist full of BS170's if you try.

In other news, I have it remembering the code speed you selected and you can store a frequency for each band to use as the power on frequency. The transmitter is now automatically enabled when tuned below 500 kHz, so be a bit careful if you have a key or paddle plugged in and you tune down below the AM BC band!

Steve KD1JV

12095. Re: [AT_Sprint] RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-15 23:13:53 UTC
From: Michael O'Bannon
Topic: 12090 Message: 12095

Steve,

300 bytes sounds like a challenge. Thanks for keeping additional
bands on the wish list, though. I'd really like to see a 30 meter
version.

72,
Michael KD4SGN

> Yes, I'm trying to figure out how to do that right now. I've only about 300
> bytes left to work with to add a routine which would allow you to select
> which bands to use. At about 2 AM this morning I decided I wasn't making any
> progress and had better call it quits before I started making serious
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>
>

12096. Re: [AT_Sprint] RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-15 23:55:35 UTC
From: Gabriel Moreno
Topic: 12090 Message: 12096

Here's an idea how about 60M there's not much out for this band.

Gabriel - N6OSB

Sent from my iPhone

On Nov 15, 2013, at 3:13 PM, Michael O'Bannon <mob@...> wrote:

> Steve,
>
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> bands on the wish list, though. I'd really like to see a 30 meter
> version.
>
> 72,
> Michael KD4SGN
>
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> > which bands to use. At about 2 AM this morning I decided I wasn't making any
> > progress and had better call it quits before I started making serious
> > mistakes, hi.
> >
> >
>
>

12097. RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-16 00:22:43 UTC
From: <xv4y@...>
Topic: 12090 Message: 12097

Hi Steve, folks,

Hans G0UPL is using a similar transmitter design for its Ultimate 2/3 QRSS beacons. Up to 20m, PA efficiency is good and the duty cycle DDS setting is stable.
On the upper bands, power out is dropping and the "blue trimmer" duty cycle DDS setting starts to be touchy. At 28 MHz or so, you can make it work but it will not always do for long and with a cold start the "blue trimmer" setting is always wrong.

73,
Yan.
---
http://www.qscope.org/ (Free online log analysis tools)

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

> When the design was first announced, you mentioned that it would also
> work on higher bands. Would it be possible to add support for 40m
> and 30m to the software?
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bit careful if you have a key or paddle plugged in and you tune down below the AM BC band!

Steve KD1JV

12098. RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-16 00:50:31 UTC
From: <xv4y@...>
Topic: 12090 Message: 12098

Hi,

As I am planning to use the MDBC mainly for receiving, the only software change I would "need" is the ability to select a startup frequency. In fact I would like it to start on the BBC Singapore frequency so my father in law can listen to his favorite program in the morning.

One way to do it is to just select a memory channel for startup frequency. The K5BCQ Si570 controller I use with my Bitx transceiver does it this way. It allows you to set any F, change it in a snap, and does not use much more EEPROM memory space.
I know the MDBC does not have "real memories" but pre-selected channels. I think I will be able to modify your code so to set 11 950 KHz as one of it.

One more feature that can be useful (but not specially for me) is the ability to change the delay for the beacon mode. I don't know how deeply you need to change your code for that...

I must admit I like you choosing the ATMega48 as MCU. This one I am able to reprogram easily using the Arduino IDE (with some restrictions) so I can make a simplified firmware for a RX usage (no keyer/RIT but memories).
Maybe one day I will write a WSPR transmitter code for it, but I will need to have an external RTC clock source or so, and I don't see any pin left on the ATMega 48...

73,
Yan - XV4Y
---
http://xv4y.radioclub.asia/

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

☐ So far I've had a few requests to make changes to the firmware. Before I start sending out new processors, I wonder if there are any other changes you might want, assuming I have room for them in the program memory - which is fairly close to full so we can't get too carried away, hi.

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Steve KD1JV

12099. Re: [AT_Sprint] RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-16 01:17:07 UTC
From: Steven Weber
Topic: 12090 Message: 12099

With all the restrictions for 60M it seems to be a totallly useless band, hence there not being much out there for it. I added 60M to the band mix available for the Tribander a while back. I should ask Doug if he has actually had anyone want the filters for the that band.

Steve KD1JV

Here's an idea how about 60M there's not much out for this band.

Gabriel - N6OSB

12100. Re: [AT_Sprint] RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-16 01:29:39 UTC
From: Roland Whitsitt
Topic: 12090 Message: 12100

There was 60 for the tribander? I got one of the first two units, so I missed that. But your right about the 60m band. It's to restrictive.
de n5vwn

Sent from Yahoo Mail on Android

12101. Calibration ATS 4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-16 11:13:16 UTC
From: Michael Thomas Bauer
Topic: 12101 Message: 12101

Hi ,

is there a way to start the calibration of the ATS 4 again, i just tried to do it with the described methode.
ATS 4 will not change into the calibration ("CARF" will not come up)

tnx

Michael

12102. Re: [AT_Sprint] RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-16 12:14:15 UTC
From: Alan Dove
Topic: 12090 Message: 12102

Hey, folks:

I wouldn't say 60 is totally useless, but it certainly isn't something I'd want for portable QRP CW. All I've found on there so far have been local SSB ragchews, most of which have centered around the novelty of using this weirdly restricted band. When I ordered my Weber tribander the other day, it didn't even occur to me to get 60m for it.

That said, 60 does seem to have some interesting propagation. If they eventually loosen up the restrictions and a few more countries adopt it, it could become pretty cool.

- Alan (N3IMU)

Alan Dove, Ph.D.
917.273.0544
alandove.com

> On Nov 15, 2013, at 8:17 PM, "Steven Weber" <steve.kd1jv@...> wrote:
>
> With all the restrictions for 60M it seems to be a totallly useless band, hence there not being much out there for it. I added 60M to the band mix available for the Tribander a while back. I should ask Doug if he has actually had anyone want the filters for the that band.
>
> Steve KD1JV

12103. Re: [AT_Sprint] RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-16 14:50:43 UTC
From: John Roland
Topic: 12090 Message: 12103

It appears that when you have the RIT (XIT) set in the beacon mode, then leave the beacon mode by tapping the key, the display of the RIT setting is erased. From what I can tell by listening to the signal with another receiver the RIT setting is in effect but not displayed. And I believe if you tap the encoder to display RIT it resets it to 0. So it seems when the beacon is turned off only the word "Beacon" should be erased and not the RIT setting. Hope this makes sense. 73 /John

On Fri, Nov 15, 2013 at 5:17 PM, Steven Weber <steve.kd1jv@...> wrote:

>
>
> □
> With all the restrictions for 60M it seems to be a totallly useless band,
> hence there not being much out there for it. I added 60M to the band
> mix available for the Tribander a while back. I should ask Doug if he has
> actually had anyone want the filters for the that band.
>
> Steve KD1JV
>
> Here's an idea how about 60M there's not much out for this band.
>
> Gabriel - N6OSB
>
>
>
>
>

12104. RE: [AT_Sprint] Calibration ATS 4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-16 15:41:58 UTC
From: Dale Putnam
Topic: 12101 Message: 12104

I've had similar issues.. at times.. with different ones... I've found that either the paddle didn't make a ground for the DOT side.. ORthe power wasn't off long enough.. pick another button to push WITH the dot closed when power is applied... that sometimes helps too.

Have a great day,

--... ...--
Dale - WC7S in Wy

From: michaelthomas.bauer@...
To: AT_Sprint@yahoogroups.com
Date: Sat, 16 Nov 2013 03:13:16 -0800
Subject: [AT_Sprint] Calibration ATS 4

Hi ,
is there a way to start the calibration of the ATS 4 again, i just tried to do it with the described methode. ATS 4 will not change into the calibration ("CARF" will not come up)
tnx
Michael

12105. Re: [AT_Sprint] RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-16 16:16:35 UTC
From: Peter Martin
Topic: 12090 Message: 12105

On Sat, Nov 16, 2013 at 12:14 PM, Alan Dove <alan.dove@...> wrote:

>
>
> Hey, folks:
>
> I wouldn't say 60 is totally useless, but it certainly isn't something I'd
> want for portable QRP CW.
>

Quite the opposite experience here!

I modified my first MTR for 60 metre operation and I couldn't be happier.

I use it regularly for SOTA operations here where it is a widely used and
very effective band.
QRP CW on the band is very effective for NVIS propagation.

Generally I use a half wave wire either lying on the ground or laced along
a fence a couple of feet off the ground to good effect.

YMMV

73
Pete
G4ISJ
http://g4isj.blogspot.co.uk/

12106. Re: [AT_Sprint] RE: Other firmware mod ideas?

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-16 18:04:30 UTC
From: Steven Weber
Topic: 12090 Message: 12106

That's what happens when I decide to be cleaver. Thanks for noticing this.
Steve

It appears that when you have the RIT (XIT) set in the beacon mode, then leave the beacon mode by tapping the key, the display of the RIT setting is erased.

12107. MBDC Thump mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-17 20:41:27 UTC
From: <jackier1061@...>
Topic: 12107 Message: 12107

The folder for the thump mod is empty. Does everyone else find that to be true?

12108. Re: [AT_Sprint] MBDC Thump mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-18 00:10:36 UTC
From: Steven Weber
Topic: 12107 Message: 12108

I tried a dozen times to upload the file into the folder and I kept getting an error message. I gave up and was going to try using another operating system. More and more sites don't like that I'm still using XP and Explorer 8. I should probably try again and see if it will let me upload the file.

Steve KD1JV
The folder for the thump mod is empty. Does everyone else find that to be true?

12109. RE: MBDC Thump mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-18 00:39:43 UTC
From: <steve.kd1jv@...>
Topic: 12107 Message: 12109

Hey, it up loaded this time!

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

☐ I tried a dozen times to upload the file into the folder and I kept getting an error message. I gave up and was going to try using another operating system. More and more sites don't like that I'm still using XP and Explorer 8. I should probably try again and see if it will let me upload the file.

Steve KD1JV
The folder for the thump mod is empty. Does everyone else find that to be true?

12110. Progress on MBDC firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-18 05:06:22 UTC
From: Steven Weber
Topic: 12110 Message: 12110

Okay, I think I got it all working right. I hope so as I have all of 6 bytes left!

In addition to fixing the RIT bug(s), I made several other changes so you'll have to down load a new manual to figure it out.

I deleted the SWBC band table from the band selections and replaced it with 10 user programmable locations.

You can now select which two bands you want to be able to transmit on and are then selected by the band switch.

You can store your own start up frequency for each of the two bands. These don't have to be in the same band as initally set by the band switch, but since it will be "out of band" as far as that switch position is concerned, the transmit will be disabled.

A minor detail, I moved the NO TX icon to the upper left corner location on the display.

Just as soon as I'm convinced I haven't created any new problems and fixed all the old problems, (and rewrite the manual), I'll start sending these out to you all.

Steve KD1JV

12111. MBDC working on RX

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-19 04:56:44 UTC
From: k1thp
Topic: 12111 Message: 12111

Finally have the MBDC nearing completion. Am hearing signals on both bands. I whopsed on the 4-pin ribbon cable to the display. I used lines 13,14,15 and 16 instead of 11,12,13 and 14 so no freq display and no back light. The signals I have been hearing have great audio presence, a trait of DC receivers. I forgot how good they can sound.
Tomorrow I will fix the cable errors and set up the transmit power.
Maybe even make some QSO's tomorrow evening.

Great fun building this lil rig Steve ... thanks for the design and kit. BTW I am using a Ten-Tec 43 enclosure. It all fit and I used your Dremel cutting wheel method to cut the rectangular display opening. Took 3 cutting wheels and a few minutes with a file to clean up. It looks better than anything I could have done with a nibbler. Much quicker and and a whole lot less cussin'.

73,

Dave K1THP

12112. MBDC Problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-20 20:47:07 UTC
From: k1thp
Topic: 12112 Message: 12112

I finished the enclosure and installed the boards, fixed a wiring error on the display and tried out the receiver with real antennas.
What I found was that 160 is almost unusable due to overload from WTIC AM 1080 KHz 50 KW, located on a mountain, about 10 miles LOS from my QTH. 80 meters is much better with some bleed thru from the same station. (Will removing C17 make a difference?)

Transmit is showing 2.5 Watts on 160 and just over 5 watts on 80. I will be checking turns on the 160 meter filter toroids.

I need a replacement right angle switch for the Menu function. It does not release after being pressed. Maybe Steve can include one in the envelope with the replacement firmware.

In all, it's been a fun build and doesn't look to bad either!

Dave K1THP

12113. Re: Progress on MBDC firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-20 21:22:49 UTC
From: k1thp
Topic: 12110 Message: 12113

Thanks Steve,
When you send mine would it be possible to include a right angle pb switch in the package? My Menu switch dies after the first push and I have to remove power to reset it. It has no tactile feel or sound.
73, Dave K1THP

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Okay, I think I got it all working right. I hope so as I have all of 6 bytes left!
>
> In addition to fixing the RIT bug(s), I made several other changes so you'll have to down load a new manual to figure it out.
>
> I deleted the SWBC band table from the band selections and replaced it with 10 user programmable locations.
>
> You can now select which two bands you want to be able to transmit on and are then selected by the band switch.
>
> You can store your own start up frequency for each of the two bands. These don't have to be in the same band as initally set by the band switch, but since it will be "out of band" as far as that switch position is concerned, the transmit will be disabled.
>
> A minor detail, I moved the NO TX icon to the upper left corner location on the display.
>
> Just as soon as I'm convinced I haven't created any new problems and fixed all the old problems, (and rewrite the manual), I'll start sending these out to you all.
>
> Steve KD1JV
>

12114. New Label for my MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-21 01:06:05 UTC
From: <f_skinner@...>
Topic: 12114 Message: 12114

My MTR now has a label….

Pictures here http://k0jqz.blogspot.com http://k0jqz.blogspot.com

72
Frank
K0JQZ

12115. Re: [AT_Sprint] MBDC Problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-21 01:26:47 UTC
From: Steven Weber
Topic: 12112 Message: 12115

> What I found was that 160 is almost unusable due to overload from WTIC AM
> 1080 KHz 50 KW, located on a mountain, about 10 miles LOS from my QTH. 80
> meters is much better with some bleed thru from the same station. (Will
> removing C17 make a difference?)
>

Since I moved into the woods, I no longer have a line of sight 1 KW AM station a mile away interfering with everything I do and showing up on my Scope. This a blessing in one sense, but I can no longer judge how a reciever will perform with a strong AMBC station near-by.

The best solution would be to move to a new QRH, but I suppose that is not a practical solution, hi.

Removing C17 might help by reducing the amount of gain in the audio, but it's not going to fix the cause of the problem.

Try running the rig off of battery power and see if that reduces or eliminates the problem. Using AC line operated supplies can sometimes be a problem with DC receivers.

Probably the best (practical) solution is to build a small tuned loop antenna for recieving. That should eliminate the problem and signficantly reduce the amount of noise pick up. The only disadvantage is that it is directions, so you'd need to be able to turn it.

I guess that will have to be the next project...

Steve KD1JV

12116. Re: MBDC Problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-21 03:06:58 UTC
From: k1thp
Topic: 12112 Message: 12116

This my first dc receiver for 160. I built several back in the 70's and 80's based on the 40673 and the SBL-1 (big improvement). I still like the way they sound though a superhet with xtal filters is pretty hard to beat!
73,
Dave K1THP

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> > What I found was that 160 is almost unusable due to overload from WTIC AM
> > 1080 KHz 50 KW, located on a mountain, about 10 miles LOS from my QTH. 80
> > meters is much better with some bleed thru from the same station. (Will
> > removing C17 make a difference?)
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>
> Since I moved into the woods, I no longer have a line of sight 1 KW AM
> station a mile away interfering with everything I do and showing up on my
> Scope. This a blessing in one sense, but I can no longer judge how a
> reciever will perform with a strong AMBC station near-by.
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> practical solution, hi.
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> reciever will perform with a strong AMBC station near-by.
>
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> Removing C17 might help by reducing the amount of gain in the audio, but
> it's not going to fix the cause of the problem.
> end used in the Heath Kit HW9 and

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
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> > What I found was that 160 is almost unusable due to overload from WTIC AM
> > 1080 KHz 50 KW, located on a mountain, about 10 miles LOS from my QTH. 80
> > meters is much better with some bleed thru from the same station. (Will
> > removing C17 make a difference?)
> >
>
> Since I moved into the woods, I no longer have a line of sight 1 KW AM
> station a mile away interfering with everything I do and showing up on my
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> > removing C17 make a difference?)
> >
>
> Since I moved into the woods, I no longer have a line of sight 1 KW AM
> station a mile away interfering with everything I do and showing up on my
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> Try running the rig off of battery power and see if that reduces or
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> problem with DC receivers.
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> Probably the best (practical) solution is to build a small tuned loop
> antenna for recieving. That should eliminate the problem and signficantly
> reduce the amount of noise pick up. The only disadvantage is that it is
> directions, so you'd need to be able to turn it.
>
> I guess that will have to be the next project...
>
> Steve KD1JV
>

12117. MBDC finished but not quite working...yet

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-21 08:16:51 UTC
From: <andrewcross_za@...>
Topic: 12117 Message: 12117

Hi to all in the group

I have finished my MBDC build. Its wired up in an enclosure and looks really good. I followed the testing procedure listed in the manual and found the voltages on U3(TL084), ie 9V at pin4 and 5V at pins 10&12. Once I had then placed all the ICs added power to the LCD and installed the DDS module I powered up and the LCD worked as well as the switches for the filters and menu and the encoder. When I listened with headphones all I heard was a hiss and when I turn up the volume I hear a thumping sound, ie thump,hiss,thump, hiss and so on. No audio signals are heard at all.

I wonder if anyone in this group can offer any places for me to look to start with, possibly test voltages for say U7(74HC4053) for example?

Any suggestions and or explanations welcome, thank you.

Regards
Andrew
VK2ONZ

12118. Re: [AT_Sprint] MBDC finished but not quite working...yet

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-21 18:51:02 UTC
From: Steven Weber
Topic: 12117 Message: 12118

The first thing to do is find out if the DDS module is working. I had one with a bad clock osc. If you don't have a Scope or Freq counter, use another receiver with a clip lead antenna and see if you can hear the output of the DDS at or about the frequency shown on the display.

Also double check that you have T1 installed correctly.

Hi to all in the group

I have finished my MBDC build. Its wired up in an enclosure and looks really good. I followed the testing procedure listed in the manual and found the voltages on U3(TL084), ie 9V at pin4 and 5V at pins 10&12. Once I had then placed all the ICs added power to the LCD and installed the DDS module I powered up and the LCD worked as well as the switches for the filters and menu and the encoder. When I listened with headphones all I heard was a hiss and when I turn up the volume I hear a thumping sound, ie thump,hiss,thump, hiss and so on. No audio signals are heard at all.

I wonder if anyone in this group can offer any places for me to look to start with, possibly test voltages for say U7(74HC4053) for example?

Any suggestions and or explanations welcome, thank you.

Regards
Andrew
VK2ONZ

12119. FS - Rotary encoder for ATS-3 (Miroslav's module)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-21 19:12:42 UTC
From: AB5EU
Topic: 12119 Message: 12119

Surplus to my needs as I purchased the ATS-4 specific encoder module.
The ATS-3 encoder is assembled and tested (PCB only - no enclosure) -
the LED's are not installed allowing them to be soldered at the height
of your choice.
I will include 18" 5 way ribbon cable for soldering to the interface
connector.

Full assembly/module details at: http://diy4fun.blogspot.com/
$27 plus $5 shipping CONUS only.

Email off list: AB5EU "at" wildblue.net

73 Trevor AB5EU

12120. Re: Progress on MBDC firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-21 19:27:46 UTC
From: k1thp
Topic: 12110 Message: 12120

I suspect a bit of the super glue got into the pb switch. Are the white nylon spacers available a bit longer ... say 5/8 inches long?
Anyway it looks like I need a pair of white spacers as well as a switch. I might use a small wood or plastic dowel inserted into the spacers to give me the extra length I need.
73, Dave K1THP

--- In AT_Sprint@yahoogroups.com, "k1thp" <karpiejd@...> wrote:
>
> Thanks Steve,
> When you send mine would it be possible to include a right angle pb switch in the package? My Menu switch dies after the first push and I have to remove power to reset it. It has no tactile feel or sound.
> 73, Dave K1THP
>
> --- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@> wrote:
> >
> > Okay, I think I got it all working right. I hope so as I have all of 6 bytes left!
> >
> > In addition to fixing the RIT bug(s), I made several other changes so you'll have to down load a new manual to figure it out.
> >
> > I deleted the SWBC band table from the band selections and replaced it with 10 user programmable locations.
> >
> > You can now select which two bands you want to be able to transmit on and are then selected by the band switch.
> >
> > You can store your own start up frequency for each of the two bands. These don't have to be in the same band as initally set by the band switch, but since it will be "out of band" as far as that switch position is concerned, the transmit will be disabled.
> >
> > A minor detail, I moved the NO TX icon to the upper left corner location on the display.
> >
> > Just as soon as I'm convinced I haven't created any new problems and fixed all the old problems, (and rewrite the manual), I'll start sending these out to you all.
> >
> > Steve KD1JV
> >
>

12121. Sold pending funds - Rotary encoder for ATS-3 (Miroslav's module)

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-21 19:42:26 UTC
From: AB5EU
Topic: 12119 Message: 12121

Thanks all for the interest.

On 11/21/2013 1:12 PM, AB5EU wrote:
> Surplus to my needs as I purchased the ATS-4 specific encoder module.
> The ATS-3 encoder is assembled and tested (PCB only - no enclosure) -
> the LED's are not installed allowing them to be soldered at the height
> of your choice.
> I will include 18" 5 way ribbon cable for soldering to the interface
> connector.
>
> Full assembly/module details at: http://diy4fun.blogspot.com/
> $27 plus $5 shipping CONUS only.
>
> Email off list: AB5EU "at" wildblue.net
>
> 73 Trevor AB5EU

12122. Re: [AT_Sprint] Re: Progress on MBDC firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-21 21:28:06 UTC
From: Steven Weber
Topic: 12110 Message: 12122

I've continued to fiddle with the firmware all week. One last feature which was requested and was a good idea was to allow the time between message repeats in beacon mode be adjustable.

By eliminating the 12 Meter band from the band selection table and by going through the code with a fine tooth comb to eliminate redudant code and using other memory saving techniques I was able to make enough room (and some to spare) to add that feature.

So, you can now set the space between message repeats from 1 to 6 seconds in 1 second incerments. 6 seconds is as long as I can go without another counter register for the timer and I don't think anyone would want to wait longer then that. 6 seconds seems like a long time. The inital setting will be 3 seconds as it is now. The setting isn't stored in eeprom, but if changed remains in effect as long as the rig is turned on.

You will also be able to use the tuning knob to change the code speed instead of just the paddle.

I think I'm about done with this...

72, Steve KD1JV

12123. Replacement volume knob for ATS-4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-22 03:09:22 UTC
From: <owen@...>
Topic: 12123 Message: 12123

I accidentally melted part of my volume knob with my soldering iron. I hate when that happens! The knob is functional but now ugly. Is there a part number I can use to order a replacement?

Also, after putting everything back in the case, I turned up the heat on my iron to solder the (after-market) BNC jack. Then I forgot to turn it back down when I soldered the DC jack. It worked fine for days before this, but now I can only get power to stay on if I press the jack into the socket "just so." I imagine the socket has lost some shape due to overheating, so I'll order another.

12124. RE: ATS-4a - sometimes won't boot, sometimes won't turn off

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-22 03:11:17 UTC
From: <owen@...>
Topic: 11884 Message: 12124

In the end, it appears that this was all down to flux on the board. I cleaned up flux around Q3 and other related components, and now the board consistently turns on and shuts off as expected. I'm surprised that's all it was, but since doing this I have not been able to reproduce my problems despite many attempts. The rig is working well now, I just need to adjust the filters, etc.

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

The crystal shouldn't matter, thier all about the same execpt maybe for size. You'd best take a real close look at the solder connections to the pins the crystal connects to at the processor.

As for it not turning off, that is a real simple circuit. Something is keeping the pass fet turned on and there are only a couple of things which can do that. A short across the On switch (the cap or mosfet) or a short at the processor keeping the pin which goes to the gate of Q3 high.

Steve

---In at_sprint@yahoogroups.com, <owen@...> wrote:

So, as I mentioned yesterday, after replacing the dead 32 khz crystal that came with my ATS-4a kit with one from a junk box, I got it to boot up. Since then, though, I'm seeing that it doesn't boot up reliably. One minute it does, the next minute it doesn't. The solder joints are fine, so I'm guessing part of the problem is that I should use a crystal that's identical in spec (not just frequency) to the original one.

Another thing I'm noticing is that when the rig DOES boot, I can't turn it off completely. If I hold down FN, I see "OFF" on the display after a few seconds, but releasing the button does nothing further. The rig seems to be in a locked state and I have to pull the battery to shut it off. What would cause that?

--
owen@... mailto:owen@... (Owen B. Mehegan)
'I spent a lot of money on booze, birds and fast cars. The rest I just squandered.'
--George Best

12125. RE: Replacement volume knob for ATS-4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-22 03:19:19 UTC
From: <owen@...>
Topic: 12123 Message: 12125

Oops, I see there is a Mouser part number for the DC plug, but not the jack listed in the manual. So I'm looking for a part number for the jack and the volume knob.

---In AT_Sprint@yahoogroups.com, <owen@...> wrote:

I accidentally melted part of my volume knob with my soldering iron. I hate when that happens! The knob is functional but now ugly. Is there a part number I can use to order a replacement?

Also, after putting everything back in the case, I turned up the heat on my iron to solder the (after-market) BNC jack. Then I forgot to turn it back down when I soldered the DC jack. It worked fine for days before this, but now I can only get power to stay on if I press the jack into the socket "just so." I imagine the socket has lost some shape due to overheating, so I'll order another.

12126. FOX: Swiped from another reflector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-22 13:12:18 UTC
From: Dale Putnam
Topic: 12126 Message: 12126

The Virginia Foxhunting team has 4 members and needs one more (from Virginia). ANY TAKERS PLEASE ? Please respond to me directly by Tuesday, November 26th which is the last day for team formation 73Jerry N9AWFoxhunt Teams Coordinator
Have a great day,

--... ...--
Dale - WC7S in Wy

12127. Re: MBDC Problems

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-22 16:33:39 UTC
From: Arthur Ripple
Topic: 12112 Message: 12127
Attachments: 2 described; binary payloads are missing from this source WARC

I got my 160/80 going sounds great
I found a nice case for it attached picture and order info
Arthur NS7E

12128. Re: [AT_Sprint] Replacement volume knob for ATS-4

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-22 18:43:11 UTC
From: Steven Weber
Topic: 12123 Message: 12128

I accidentally melted part of my volume knob with my soldering iron. I hate when that happens! The knob is functional but now ugly. Is there a part number I can use to order a replacement?

You can't buy just the knob, it comes with the control. Although I did find this knob which might work, but you'll likely have to make the cut out in the case larger as the knob has a skirt on it with 0 to 9 printed on it

Mouser 450-0010, Other wise you'll have to order the control Mouser 311-1202F-50K

The power jack is Mouser 163-4018-EX

12129. F.S. MTR and Palm Paddle combo

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-23 21:46:50 UTC
From: Joe W2KJ
Topic: 12129 Message: 12129

Howdy Gang:

I find I am using my KX3 more and more for portable use so am offering for sale my little used MTR transceiver and Palm Paddle.

The MTR is in like-new condition.....and is the most recent version that Steve, KD1JV offered as a kit including the sharp new blue case.

I attached a strip of 3M Dual Lock to the right side of the MTR and another strip to the side of my Palm Paddle and they mate up very well.

As the commercial goes "3M Dual Lock is not your Father's velcro"....GRIN.

This makes a really nice portable package with the Palm Paddle on the right side of the MTR....it is easy to reverse this for the southpaws out there.

The 3M Dual Lock leaves absolutely no residue...I use it on lots of stuff here in the shack.

I will ship the MTR and Palm Paddle for $280....CONUS only please.

U.S. Postal Money order or PayPal (add 3.5% fee) are the methods of payment.

10M has been jumping all day with DX in the CQ WW contest...gonna go back there now.....cu on the air.

73, Joe W2KJ
I QRP, therefore I am

12130. Re: [AT_Sprint] F.S. MTR and Palm Paddle combo

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-23 21:58:20 UTC
From: Hank Greeb
Topic: 12129 Message: 12130

Hi, Joe:

I'll bet your Mountain Top Radio will go in a flash!

I operated a bit less than 2 hours on CQ WW DX CW SOSB/10, and made >30
Q's the first hour, but took too long of a break for lunch and Europe
was fading out when I got back. The pileups were fierce for what DX was
left - I did work KH6 and wound up with 44 Q's total before I had to leave.

Family matters will keep me from doing any more on this event, but, as
I've often said,
"I never cease to be amazed at what an "olde fogey non contester" can
muster with <5 watts to a modest antenna."

72/73 de n8xx Hg
QRP >99.44% of the time

On 11/23/2013 4:46 PM, Joe W2KJ wrote:
> 10M has been jumping all day with DX in the CQ WW contest...gonna go back there
now.....cu on the air.

12131. re: F.S. MTR and Palm Paddle

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-24 14:25:33 UTC
From: Joe W2KJ
Topic: 12131 Message: 12131

Howdy Gang:

I received an offer for the Palm Paddle so I will sell the MTR by itself for $200 shipped.

Again, the MTR is in like-new condition and lightly used.

73, Joe W2KJ
I QRP, therefore I am

12132. FW: [Qrp-lnew] F.S. KD1JV MTR QRP transceiver

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-24 20:14:57 UTC
From: Dale Putnam
Topic: 12132 Message: 12132

captured fm another reflector

Have a great day,

--... ...--
Dale - WC7S in Wy

> From: w2kj@...
> Date: Sun, 24 Nov 2013 14:17:46 -0500
> To: Qrp-lnew@...
> Subject: [Qrp-lnew] F.S. KD1JV MTR QRP transceiver
>
> Howdy Gang:
>
> Still thinning the herd here so am offering for sale a lightly used KD1JV MTR two band QRP transceiver for 20M/40M.
>
> The rig is in mint, like-new condition, works FB, and is a very trail friendly rig perfect for SOTA too.
>
> This is the newest version of the MTR with the neat new blue case.
>
> Will ship for $200.
>
> 73, Joe W2KJ
> I QRP, therefore I am
>
>
> _____
> Qrp-lnew mailing list
> Qrp-lnew@...
> http://mailman.zerobeat.net/mailman/listinfo/qrp-lnew

12133. re: F.S. MTR transceiver

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-25 15:47:22 UTC
From: Joe W2KJ
Topic: 12133 Message: 12133

The MTR transceiver advertised yesterday has been sold.

73, Joe W2KJ
I QRP, therefore I am

12134. Safe SWR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-26 01:32:46 UTC
From: Kevin Kleinfelter
Topic: 12134 Message: 12134

What's the maximum safe SWR when using the MTR with a 12-volt supply? With a 9-volt supply?

I've recently become an MTR owner. My prior rig had the smarts to protect itself when I ineptly fed it into a high SWR antenna. Since the MTR expects *me* to supply the smarts, it is time for me to become more ept.

I fully understand that a good match will transfer optimum power to the antenna system, and that's a good goal. I'm asking about max safe SWR because I'd hate to 'let the smoke out' as I give up the 'training wheels' of my smart rig.
73,
Kevin / K4KPK

12135. Re: [AT_Sprint] Safe SWR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-26 13:14:11 UTC
From: Hank Greeb
Topic: 12134 Message: 12135

I know one can run SWR 3 with 9 volt supply. My antenna without tuner typically runs swr 3 and one time I forgot the tuner, and my original AT-Sprint worked fine.

72/73 de n8xx Hg
QRP >99.44% of the time

On 11/25/2013 8:32 PM, Kevin Kleinfelter wrote:
>
>
> What's the maximum safe SWR when using the MTR with a 12-volt supply?
> With a 9-volt supply?
>
> I've recently become an MTR owner. My prior rig had the smarts to
> protect itself when I ineptly fed it into a high SWR antenna. Since
> the MTR expects *me* to supply the smarts, it is time for me to become
> more ept.
>
> I fully understand that a good match will transfer optimum power to
> the antenna system, and that's a good goal. I'm asking about max safe
> SWR because I'd hate to 'let the smoke out' as I give up the 'training
> wheels' of my smart rig.
> 73,
> Kevin / K4KPK

12136. MTR and solder paste

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-26 18:16:41 UTC
From: <jackier1061@...>
Topic: 12136 Message: 12136

I am beginning to think about starating on my MTR. I have the solder paste and heating element and embossing gun. My question is after I have done the first side (the back side) how do I reheat the front side with the back side already populated with chips?

Won't the heat hurt the ICs and other components?

Thanks for any guidance.

12137. Re: [AT_Sprint] MTR and solder paste

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-26 18:37:51 UTC
From: Paul Smith
Topic: 12136 Message: 12137

I set my ats3 on four piles of two pennies each and it worked great go for it no problem

de Paul N0NBD

Sent from my iPad

> On Nov 26, 2013, at 12:16 PM, <jackier1061@...> wrote:
>
> I am beginning to think about starating on my MTR. I have the solder paste and heating element and embossing gun. My question is after I have done the first side (the back side) how do I reheat the front side with the back side already populated with chips?
>
>
>
> Won't the heat hurt the ICs and other components?
>
>
>
> Thanks for any guidance.
>
>
>
>

12138. RE: [AT_Sprint] MTR and solder paste

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-26 18:51:39 UTC
From: Dale Putnam
Topic: 12136 Message: 12138

Nope, won't hurt anything, just make real sure not to bump or jostle the board, while the paste is liquid, or the solder is flowing.Take the heat off.. let it sit, and cool, ... then move the board. Of coarse you aren't going to continue to apply additional heat for an extended period of time, after the paste flows... only long enough to align the components, if that is even needed.
Good Luck, it is a fun build,

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: jackier1061@...
Date: Tue, 26 Nov 2013 10:16:41 -0800
Subject: [AT_Sprint] MTR and solder paste

I am beginning to think about starating on my MTR. I have the solder paste and heating element and embossing gun. My question is after I have done the first side (the back side) how do I reheat the front side with the back side already populated with chips?

Won't the heat hurt the ICs and other components?

Thanks for any guidance.

12139. FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-26 19:12:13 UTC
From: Robin Kidd
Topic: 10442 Message: 12139

Well I did not think I would do this but I need to sell my brand new MTR built by Dale Putnam. Just am not using it. So it needs to go to someone who will. Price $200. Please respond off list to me if interested. Thank you Dale.

--
72/73,
Robin Kidd
W4IEN
w4ien@...
678-488-9655

12140. Re: [AT_Sprint] FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-27 01:23:31 UTC
From: Robin Kidd
Topic: 10442 Message: 12140

On 11/26/2013 14:12, Robin Kidd wrote:
>
> Well I did not think I would do this but I need to sell my brand new MTR
> built by Dale Putnam. Just am not using it. So it needs to go to
> someone who will. Price $200. Please respond off list to me if
> interested. Thank you Dale.
>
> --
> 72/73,
> Robin Kidd
> W4IEN
> w4ien@...
> 678-488-9655
>
>
The MTR has been sold.

--
72/73,
Robin Kidd
W4IEN
w4ien@...
678-488-9655

12141. FS: ATS-3B - Built

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-27 15:37:22 UTC
From: Jeff Imel
Topic: 12141 Message: 12141

For Sale: ATS-3B mounted in Altoids tin with custom label identifying the buttons and jacks. It comes with all band models built and stored in their own Altoids tin with foam separators. Includes power cord and an adapter that allows you to use LiPos with Deans connectors and a nice case to store the transceiver, band module tin, plus room for your batteries, ear buds, and etc. There is room enough for a small tuner and wire for your antenna. This is a very nice set-up that is easy to transport in the car or in your backpack.
I had this rig on the air this weekend and it works great. I am selling it to finance another purchase.
$175 and that includes free Insured Priority Mail shipping to your CONUS QTH. I accept PayPal. If you are not happy I am thrilled to refund your money with the return of the radio.
Please contact me off list at jeffimel@...
73
JeffK9ESE

12142. RE: [AT_Sprint] FS: ATS-3B - SOLD PENDING FUNDS

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-27 15:56:24 UTC
From: Jeff Imel
Topic: 12141 Message: 12142

Sold pending payment.
Thank you for your interest.
73
JeffK9ESE
To: at_sprint@yahoogroups.com
From: jeffimel@...
Date: Wed, 27 Nov 2013 15:37:22 +0000
Subject: [AT_Sprint] FS: ATS-3B - Built

For Sale: ATS-3B mounted in Altoids tin with custom label identifying the buttons and jacks. It comes with all band models built and stored in their own Altoids tin with foam separators. Includes power cord and an adapter that allows you to use LiPos with Deans connectors and a nice case to store the transceiver, band module tin, plus room for your batteries, ear buds, and etc. There is room enough for a small tuner and wire for your antenna. This is a very nice set-up that is easy to transport in the car or in your backpack.
I had this rig on the air this weekend and it works great. I am selling it to finance another purchase.
$175 and that includes free Insured Priority Mail shipping to your CONUS QTH. I accept PayPal. If you are not happy I am thrilled to refund your money with the return of the radio.
Please contact me off list at jeffimel@...
73
JeffK9ESE

12143. MBDC thump mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-27 17:10:35 UTC
From: Bob Cutter
Topic: 12143 Message: 12143

Is it really worth doing? I know it is a subjective question but anyone out there done a "before and after" comparison.

72, Bob KIØG

12144. Re: [AT_Sprint] MBDC thump mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-27 18:09:27 UTC
From: Steven Weber
Topic: 12143 Message: 12144

Is it really worth doing? I know it is a subjective question but anyone out there done a "before and after" comparison.

72, Bob KIØG

If you using the internal keyer and a speaker instead of headphones, you can probably live with it. If you use a Straight key and/or headphones, definately worth it as it completely eliminates the thump.

Steve KD1JV

12145. SOTABEAM stuff I just received

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-27 21:36:11 UTC
From: Joe W2KJ
Topic: 12145 Message: 12145

Howdy Gang:

Just got some neat stuff from SOTABEAM in England.

Pretty fast shipping from over the pond too!!

I got a two piece stand for my KX3 that can be used in the shack or in the field...it puts the KX3 at a nice angle for viewing.....the two pieces can lay flat for inclusion into your portable kit.

Also got 4 wire winders that are used to wrap wire or support rope in a figure eight pattern on the forms....the wire simply unfolds off of the holder when ready to deploy.

I always get my support ropes in a tangle...I was in the Army and not the Navy unfortunately....grin.....and these small forms are just the thing for portable wire antennas.

I'm gonna layout my PAR 40/20/10M EFHW and wrap it on one of the forms and see how it fits.....too cold and rainy today so will put it off until tomorrow afternoon.

These little winders will find many uses for field use I am sure.

New toys are always fun!!!

73, Joe W2kJ
I QRP, therefore I am

12146. RE: SOTABEAM stuff I just received

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-27 23:02:20 UTC
From: <f_skinner@...>
Topic: 12145 Message: 12146

Joe, those winders are pretty cool. SOTABEAMS has a lot of neat and practical items for sale.

I was not in the Navy but I have been using the figure 8 technique since my early days in the Air Force in order to allow 5 level paper tape to feed through the teletype (model 28) without getting tangled. A friend did a short video of me winding an antenna this way. https://www.youtube.com/watch?v=PFUEvrwkHZg https://www.youtube.com/watch?v=PFUEvrwkHZg

My method takes practice, the winders do not have a learning curve so they are a pretty good deal.

Frank
K0JQZ
http://k0jqz.blogspot.com

---In AT_Sprint@yahoogroups.com, <jotrom@...> wrote:

Howdy Gang:

Just got some neat stuff from SOTABEAM in England.

Pretty fast shipping from over the pond too!!

I got a two piece stand for my KX3 that can be used in the shack or in the field...it puts the KX3 at a nice angle for viewing.....the two pieces can lay flat for inclusion into your portable kit.

Also got 4 wire winders that are used to wrap wire or support rope in a figure eight pattern on the forms....the wire simply unfolds off of the holder when ready to deploy.

I always get my support ropes in a tangle...I was in the Army and not the Navy unfortunately....grin.....and these small forms are just the thing for portable wire antennas.

I'm gonna layout my PAR 40/20/10M EFHW and wrap it on one of the forms and see how it fits.....too cold and rainy today so will put it off until tomorrow afternoon.

These little winders will find many uses for field use I am sure.

New toys are always fun!!!

73, Joe W2kJ
I QRP, therefore I am

12147. RE: MBDC thump mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-27 23:24:27 UTC
From: <wlinn.linn@...>
Topic: 12143 Message: 12147

I use a bug, sideswiper, straight key, or external keyer about 90% of the time in my normal routine. Without doing this modification, it isn't practical to use any means of external keying. At least half of the fun of using cw is being able to send, using my "CW" voice, developed in its best form while using external keying. Of course, the bug is out when it comes to hiking the trails.

I haven't done the mod yet because I'll need to tear it down when the new chip and manual become available. Bottom line is, yes this mod is worth doing and shouldn't take more than ten-minutes, once you have the board in hand.

Bill-W7WEL

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

Is it really worth doing? I know it is a subjective question but anyone out there done a "before and after" comparison.

72, Bob KIØG

If you using the internal keyer and a speaker instead of headphones, you can probably live with it. If you use a Straight key and/or headphones, definately worth it as it completely eliminates the thump.

Steve KD1JV

12148. RE: RE: MBDC thump mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 07:29:37 UTC
From: <ohwenzelph@...>
Topic: 12143 Message: 12148

Is there a way we can move this group someplace besides Yahoo? On a mac Yahoo has become unusable. Sorry if this seems off topic but I can't even follow a topic anymore. It has become really really bad.
thanks
Jerry aa1of
.

---In AT_Sprint@yahoogroups.com, <wlinn.linn@...> wrote:

I use a bug, sideswiper, straight key, or external keyer about 90% of the time in my normal routine. Without doing this modification, it isn't practical to use any means of external keying. At least half of the fun of using cw is being able to send, using my "CW" voice, developed in its best form while using external keying. Of course, the bug is out when it comes to hiking the trails.

I haven't done the mod yet because I'll need to tear it down when the new chip and manual become available. Bottom line is, yes this mod is worth doing and shouldn't take more than ten-minutes, once you have the board in hand.

Bill-W7WEL

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

Is it really worth doing? I know it is a subjective question but anyone out there done a "before and after" comparison.

72, Bob KIØG

If you using the internal keyer and a speaker instead of headphones, you can probably live with it. If you use a Straight key and/or headphones, definately worth it as it completely eliminates the thump.

Steve KD1JV

12149. Re: [AT_Sprint] RE: RE: MBDC thump mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 13:35:15 UTC
From: Alan Dove
Topic: 12143 Message: 12149

Hey, folks:

I'm also a Mac user, and have a simple method to keep the list readable: don't visit the Yahoo web site. Interact with the list strictly by email. Mail.app - or any other modern email client - will let you sort list emails into their own folder and view messages by thread.

If people really want a different platform - and Steve is willing to do it - QSL.net offers free email list hosting for ham groups. However, that system uses GNU Mailman. As an administrator of several Mailman lists, I can attest that it's typical GNU-ware: immensely powerful and totally free, but equipped with an utterly obtuse interface. We'd most likely be trading one set of problems for another.

- Alan (N3IMU)

Alan Dove, Ph.D.
917.273.0544
turbidplaque.com

> On Nov 28, 2013, at 2:29 AM, <ohwenzelph@...> wrote:
>
> Is there a way we can move this group someplace besides Yahoo? On a mac Yahoo has become unusable. Sorry if this seems off topic but I can't even follow a topic anymore. It has become really really bad.
>
> thanks
>
> Jerry aa1of

12150. Re: [AT_Sprint] RE: RE: MBDC thump mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 14:05:02 UTC
From: Lee Hiers
Topic: 12143 Message: 12150

On Thu, Nov 28, 2013 at 2:29 AM, <ohwenzelph@...> wrote:

> Is there a way we can move this group someplace besides Yahoo? On a mac
> Yahoo has become unusable.
>
I'm using Mac and don't have much of any problem with any of the 50 or so
Yahoo groups to which I subscribe.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

12151. Happy Thanksgiving and Hanukkah

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 15:00:40 UTC
From: Dale Putnam
Topic: 12151 Message: 12151

The big holiday buzz this year surrounds the convergence of two other major holidays, an event that won't take place for another 79,000 years. Today Thanksgiving and Hanukkah overlap for the first time since 1888, creating what many are calling "Thanksgivukkah

Now.. I sat up most of the night figuring that out... right? Nope.. just got out my copy and paste...

Have a great day,

--... ...--
Dale - WC7S in Wy

12152. RE: MBDC thump mod

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 15:52:13 UTC
From: <jgaffke@...>
Topic: 12143 Message: 12152

Took a week for the digest to start arriving via email after turning it on, I have no idea why.
In the meantime I mostly made my peace with the botched Yahoo web interface.

I doubt using a web browser into Yahoo is much different on a Mac than on any other OS.
KE7ER

--On Thu, Nov 28, 2013 at 2:29 AM, <ohwenzelph@... mailto:ohwenzelph@...> wrote:
Is there a way we can move this group someplace besides Yahoo? On a mac Yahoo has become unusable

12153. Re: [AT_Sprint] Happy Thanksgiving and Hanukkah

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 17:15:43 UTC
From: Johnny Matlock
Topic: 12151 Message: 12153

Happy Thanksgiving all!
73 from KS
Johnny AC0BQ

On Thu, Nov 28, 2013 at 9:00 AM, Dale Putnam <daleputnam@...> wrote:

>
>
> The big holiday buzz this year surrounds the convergence of two other
> major holidays, an event that won't take place for another 79,000 years.
> Today Thanksgiving and Hanukkah overlap for the first time since 1888,
> creating what many are calling "Thanksgivukkah
>
>
> Now.. I sat up most of the night figuring that out... right? Nope.. just
> got out my copy and paste...
>
>
> Have a great day,
>
>
> --... ...-- Dale - WC7S in Wy
>
>
>
>
>

--
QRP....."more smiles per watt"

12154. Re: FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 17:30:43 UTC
From: John Kenney
Topic: 10442 Message: 12154

Hi - I lost a large portion of my computer system, and along with it all my passwords, etc. I have tried to log on to Yahoo Groups with my ID, but when I try to change my password, I am told that it is weak, and not acceptable, so I can't continue. I have tried entering random groups of letters and numbers (8 to 32 characters), but no matter what I try, I cannot generate a password that is suitable for Yahoo. I would like to contact the moderator, but I do not know how. Any suggestions? Thanks, John, W7COI

12155. Re: [AT_Sprint] Re: FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 18:07:12 UTC
From: Hank Greeb
Topic: 10442 Message: 12155

Choose a random set of letters, special characters, and numbers, like
j4^j*rz#x_H%@
That's what I've been doing to ensure a "strong" password.

72/73 de n8xx Hg
QRP >99.44% of the timej

On 11/28/2013 12:30 PM, John Kenney wrote:
> Hi - I lost a large portion of my computer system, and along with it all
> my passwords, etc. I have tried to log on to Yahoo Groups with my ID,
> but when I try to change my password, I am told that it is weak, and not
> acceptable, so I can't continue. I have tried entering random groups of
> letters and numbers (8 to 32 characters), but no matter what I try, I
> cannot generate a password that is suitable for Yahoo. I would like to
> contact the moderator, but I do not know how. Any suggestions? Thanks,
> John, W7COI

12156. Re: [AT_Sprint] Re: FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 18:22:07 UTC
From: John Kenney
Topic: 10442 Message: 12156

On 11/28/2013 10:07 AM, Hank Greeb wrote:
>
> Choose a random set of letters, special characters, and numbers, like
> j4^j*rz#x_H%@
> That's what I've been doing to ensure a "strong" password.
>
> 72/73 de n8xx Hg
> QRP >99.44% of the timej
>
> On 11/28/2013 12:30 PM, John Kenney wrote:
>> Hi - I lost a large portion of my computer system, and along with it all
>> my passwords, etc. I have tried to log on to Yahoo Groups with my ID,
>> but when I try to change my password, I am told that it is weak, and not
>> acceptable, so I can't continue. I have tried entering random groups of
>> letters and numbers (8 to 32 characters), but no matter what I try, I
>> cannot generate a password that is suitable for Yahoo. I would like to
>> contact the moderator, but I do not know how. Any suggestions? Thanks,
>> John, W7COI
>
>
Hi - That's what I have been doing since early this morning. I just hit
random numbers, upper/lower case letters and special symbols. I try to
keep it at or just under 32 characters. Nothing seems to be good enough
for Yahoo. John

12157. RE: FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 18:26:55 UTC
From: <jgaffke@...>
Topic: 10442 Message: 12157

Here's the yahoo password requirements:
http://help.yahoo.com/kb/index?locale=en_US&page=content&id=SLN5681

---In at_sprint@yahoogroups.com, <johnkenney@...> wrote:
... when I try to change my password, I am told that it is weak, and not acceptable ...

12158. Re: [AT_Sprint] Re: FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 18:45:48 UTC
From: Hank Greeb
Topic: 10442 Message: 12158

FYI, and for all the AT_Sprint members, I very successfully changed my
password to j4^j*rz#x_H%@ with no difficulty. Sorry, but I cannot help
any more.

Note, unless I have difficulty changing the password the second time, my
password will NOT be j4^j*rz#x_H%@ when this is read. :)

72/73 de n8xx Hg
QRP >99.44% of the time

On 11/28/2013 1:22 PM, John Kenney wrote:
>
>
> On 11/28/2013 10:07 AM, Hank Greeb wrote:
>>
>> Choose a random set of letters, special characters, and numbers, like
>> j4^j*rz#x_H%@
>> That's what I've been doing to ensure a "strong" password.
>>
>> 72/73 de n8xx Hg
>> QRP >99.44% of the timej
>>
>> On 11/28/2013 12:30 PM, John Kenney wrote:
>>> Hi - I lost a large portion of my computer system, and along with it all
>>> my passwords, etc. I have tried to log on to Yahoo Groups with my ID,
>>> but when I try to change my password, I am told that it is weak, and not
>>> acceptable, so I can't continue. I have tried entering random groups of
>>> letters and numbers (8 to 32 characters), but no matter what I try, I
>>> cannot generate a password that is suitable for Yahoo. I would like to
>>> contact the moderator, but I do not know how. Any suggestions? Thanks,
>>> John, W7COI
>>
> Hi - That's what I have been doing since early this morning. I just
> hit random numbers, upper/lower case letters and special symbols. I
> try to keep it at or just under 32 characters. Nothing seems to be
> good enough for Yahoo. John
>
>
>

12159. RE: [AT_Sprint] Re: FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 18:50:59 UTC
From: Mike Olbrisch
Topic: 10442 Message: 12159

That is funny Hank, because from now on when I think of you, j4^j*rz#x_H%@ will come to mind.

Vy73 - Mike - KD5KC.
El Paso, Texas - DM61rt.
W5-SOTA Association Manager.
NA-SOTA info: http://na-sota.org/

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of Hank Greeb
Sent: Thursday, November 28, 2013 11:46
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] Re: FS: MTR

FYI, and for all the AT_Sprint members, I very successfully changed my password to j4^j*rz#x_H%@ with no difficulty. Sorry, but I cannot help any more.

Note, unless I have difficulty changing the password the second time, my password will NOT be j4^j*rz#x_H%@ when this is read. :)

72/73 de n8xx Hg
QRP >99.44% of the time

12160. Re: [AT_Sprint] RE: FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 18:52:17 UTC
From: John Kenney
Topic: 10442 Message: 12160

On 11/28/2013 10:26 AM, jgaffke@... wrote:
>
> Here's the yahoo password requirements:
>
> http://help.yahoo.com/kb/index?locale=en_US&page=content&id=SLN5681
>
>
> ---In at_sprint@yahoogroups.com, <johnkenney@...> wrote:
> ... when I try to change my password, I am told that it is weak, and
> not acceptable ...
>
Hi - Using the password reset site for that URL got me "restricted
access" so I can't try again for 24 hours. When I hit the "NEXT" button
I go to a Yahoo site that informs me I have important messages from
"sexygirl" and other strange/suspicious individuals. Thanks anyway, John

12161. Re: [AT_Sprint] MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 19:37:39 UTC
From: Alan Dove
Topic: 10442 Message: 12161

Hey, folks:

When I joined this list I didn't realize there'd be so much profanity on it.

--Alan (N3IMU)

--
Alan Dove, Ph.D.
Web: turbidplaque.com
Phone: 917.273.0544
Skype: alandove
Twitter: @alandove

> That is funny Hank, because from now on when I think of you, j4^j*rz#x_H%@ will come to mind.
>
>

12162. Re: [AT_Sprint] RE: FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 20:17:55 UTC
From: Hank Greeb
Topic: 10442 Message: 12162

John:

Sounds like you have a malicious "Redirect Virus" which is causing your problem with Yahoo.

If the virus hasn't screwed with restore points, use windows restore, choose a restore point as far back as is listed on your computer, This might be all you need. Windows Restore has saved me several times from such mischief.

Check your computer for a virus, using something like Hitman Pro. Best to download Hitman Pro on a "known clean" computer which is different from the computer which is giving you problems. Hitman Pro has a trial version which is usable for 30 days without payment. If you like it as I do, you might even buy it.

There's another totally free malware/virus programme called Malware Bytes, but Hitman Pro seems to do much better.

72/73 de n8xx Hg
QRP >99.44% of the time

On 11/28/2013 1:52 PM, John Kenney wrote:
>
>
> On 11/28/2013 10:26 AM, jgaffke@... wrote:
>>
>> Here's the yahoo password requirements:
>>
>> http://help.yahoo.com/kb/index?locale=en_US&page=content&id=SLN5681
>>
>>
>> ---In at_sprint@yahoogroups.com, <johnkenney@...> wrote:
>> ... when I try to change my password, I am told that it is weak, and
>> not acceptable ...
> Hi - Using the password reset site for that URL got me "restricted
> access" so I can't try again for 24 hours. When I hit the "NEXT"
> button I go to a Yahoo site that informs me I have important messages
> from "sexygirl" and other strange/suspicious individuals. Thanks
> anyway, John
>
>
>

12163. RE: Re: [AT_Sprint] RE: FS: MTR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-28 21:34:53 UTC
From: <jgaffke@...>
Topic: 10442 Message: 12163

Could well be malware. Nasty.

Perhaps verify by trying to reset the password on some other hopefully clean computer.
If they somehow now have access to your yahoo account, they might have access to things
like your amazon account, or whoever you communicate with through your yahoo account.

---In AT_Sprint@yahoogroups.com, <n8xx@...> wrote:
Sounds like you have a malicious "Redirect Virus" which is causing your problem with Yahoo.

12164. Re: [AT_Sprint] changing forum provider

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-29 01:25:38 UTC
From: Steven Weber
Topic: 12164 Message: 12164

The nice thing about yahoo groups is that they let us share files and pictures. An email based mailing list like qrp-l isn't going to cut it. Other social media like Facebook or Google+ might come close, but they don't offer the file sharing. I guess Google has a file sharing feature which might be usable, but it would be seperate from the group, making things a bit complicated and confusing.

Steve KD1JV

If people really want a different platform - and Steve is willing to do it - QSL.net offers free email list hosting for ham groups.

12165. New MBDC firmware - started to ship

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-29 22:20:07 UTC
From: Steven Weber
Topic: 12165 Message: 12165

I finally started to send out the new MBDC rigs firmware chips. I got just over 50 into the mail this afternoon, the balance will go out Monday, most of those to DX stations. I hope everyone who has already built the rig will get the new chip in time for the ARRL 160 M contest on Dec 5th. I'll have to remember to get on the air myself that that and see what happens :)

Also included are the resistor and diode needed for the thump mod. Be sure to look for them, as they are taped to the side of the insert I added to keep the chip carrier from punching through the envelope. That keeps them from rattling around.

As for the original processor chip, you can send it back to me if you like and I can recycle it. But if you bought a spare display and DDS module, you could keep it and use it for a signal generator or something.

Steve KD1JV

And if anyone finds a new bug in this firmware, I'll just go out back and shoot myself in the other foot....

12166. Re: [AT_Sprint] New MBDC firmware - started to ship

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-29 23:28:23 UTC
From: Johnny Matlock
Topic: 12165 Message: 12166

Tnx Steve
72
Happy Thanksgiviing!
Johnny AC0BQ

On Fri, Nov 29, 2013 at 4:20 PM, Steven Weber <steve.kd1jv@...> wrote:

>
>
> I finally started to send out the new MBDC rigs firmware chips. I got just
> over 50 into the mail this afternoon, the balance will go out Monday, most
> of those to DX stations. I hope everyone who has already built the rig
> will
> get the new chip in time for the ARRL 160 M contest on Dec 5th. I'll have
> to
> remember to get on the air myself that that and see what happens :)
>
> Also included are the resistor and diode needed for the thump mod. Be sure
> to look for them, as they are taped to the side of the insert I added to
> keep the chip carrier from punching through the envelope. That keeps them
> from rattling around.
>
> As for the original processor chip, you can send it back to me if you like
> and I can recycle it. But if you bought a spare display and DDS module,
> you
> could keep it and use it for a signal generator or something.
>
> Steve KD1JV
>
> And if anyone finds a new bug in this firmware, I'll just go out back and
> shoot myself in the other foot....
>
>
>

--
QRP....."more smiles per watt"

12167. Solder

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-29 16:06:56 UTC
From: <sgholly@...>
Topic: 12167 Message: 12167

Hi Steve KD1JV,

What is the brand and catalog number of the solder that you supplied with the most recent MTR kits?

Thank you,
Steve WI2W

12168. RE: Safe SWR

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-11-26 14:52:02 UTC
From: <brianpepperdine@...>
Topic: 12134 Message: 12168

I don't have an MTR rig, but I think the standard for the Weber ATS rigs has been that 9 VDC is safe, and its also a good idea to use an SWR indication system having an inherent internal load in line.. such as the Doug Hendricks kit LED based SWR indicator (Dan Tayloe circuit, same thing is in the ZM-2 tuner).

In the case of my ATS-4, I did a simple inline regulator circuit on a vectorboard with a regulator and capacitors and put it in-line of my bench 12/13.8 VDC supply or my external 12 VDC lead-acid battery (for patio/deck open-air radio).
With that 9 VDC from the regulator, I should be good.

Brien
VE3VAW
Toronto ON

---In AT_Sprint@yahoogroups.com, <kleinfelter.groups@...> wrote:

What's the maximum safe SWR when using the MTR with a 12-volt supply? With a 9-volt supply?

I've recently become an MTR owner. My prior rig had the smarts to protect itself when I ineptly fed it into a high SWR antenna. Since the MTR expects *me* to supply the smarts, it is time for me to become more ept.

I fully understand that a good match will transfer optimum power to the antenna system, and that's a good goal. I'm asking about max safe SWR because I'd hate to 'let the smoke out' as I give up the 'training wheels' of my smart rig.
73,
Kevin / K4KPK

12169. ARRL 160 Contest Next Weekend

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-02 00:10:12 UTC
From: Hank Greeb
Topic: 12169 Message: 12169

Yup, it's that time of the year, again. The ARRL 160 meter contest starts 2200 UTC Friday, ends 1600 UTC Sunday (December 6-8, 2013). This is a forty-two hour period with no time limitation. (n8xx note - IF you can make many contacts while the sun is shining in your area, well, then, you are in an area where the number of 160 meter ops are very densely situated.)

Rules for this event are at http://www.arrl.org/160-meter

Note that there IS a QRP category, and there are quite a few entries in the QRP category (81 from US/Canada out of 1047 entries from the same area.

AND for those in the group which have a working Muti Band Direct Conversion rig working on 160, this would be a GRRRRRR8 opportuinity to put it through its paces.

My MDBC is still in the box. I guess my pending membership in the procrastinators of America is one reason, but then I've heard there's a new firmware for the software, so maybe this will be better for me. :) But, you may wish to crank up that MBDC make sure your antenna is usable on 160, & give it a whirl!

72/73 de n8xx Hg
QRP >99.44% of the time

12170. New MBDC firmware chip

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-02 00:59:05 UTC
From: Steven Weber
Topic: 12170 Message: 12170

Well, it seems I need to go out back and shoot myself in the other foot. Just found a minor problem with the new firmware I sent out while double checking the instructions for the manual revisions for this firmware.

Seems I got the band selection reversed. It comes up as 80M in the 160M filter switch position.

There are three ways to fix this:
1) Swap around the fitler parts (not too practical an idea if you've already installed the parts)
2) Do a "cut and jump" to reverse the connetion on S3 going to R30. (good thing I made ground the common pin on the switch!)
3) Reprogram the band selections using CAL mode so Band A is 80M and Band B is 160 M. This is the easiest option.

I'll fix this with the chips I haven't sent out yet, which are primarly to DX stations.

Sorry about this.

Steve KD1JV

12171. Re: [AT_Sprint] New MBDC firmware chip

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-02 01:15:58 UTC
From: Hank Greeb
Topic: 12170 Message: 12171

So, for dolts like me, who haven't started on the build, what should I do?

Also, if there are upgrades to the firmware, will there be two versions?

I'm waiting on needles, pins, and at my mailbox every day to get the new
firmware.

72/73 de n8xx Hg
QRP >99.44% of the time

On 12/1/2013 19:59 PM, Steven Weber wrote:
> Well, it seems I need to go out back and shoot myself in the other foot.
> Just found a minor problem with the new firmware I sent out while double
> checking the instructions for the manual revisions for this firmware.
>
> Seems I got the band selection reversed. It comes up as 80M in the 160M
> filter switch position.
>
> There are three ways to fix this:
> 1) Swap around the fitler parts (not too practical an idea if you've already
> installed the parts)
> 2) Do a "cut and jump" to reverse the connetion on S3 going to R30. (good
> thing I made ground the common pin on the switch!)
> 3) Reprogram the band selections using CAL mode so Band A is 80M and Band B
> is 160 M. This is the easiest option.
>
> I'll fix this with the chips I haven't sent out yet, which are primarly to
> DX stations.
>
> Sorry about this.
>
> Steve KD1JV

12172. Re: [AT_Sprint] New MBDC firmware chip

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-02 02:30:04 UTC
From: Gil WA5YKK
Topic: 12170 Message: 12172

Steve,

I'm so immersed in "renovating" my workshop that I haven't had time to get involved in anything smaller than wristwatch tool kits, and I need to send some work off to Dale, almost glad I have too long a work list!

Don't feel bad about feeling the need to shoot oneself in the other left foot, I've found an "expensive" wood handled titanium hammer that I thought some "wetback laborer" had put in his toolbox, then located a brake fluid bleeding and replacement tool for my sister's huge Dodge Charger, so I'm now wondering if I can put the watchmaking tools on a bench to await time for the "discovery" of a box of parts that were for a computer upgrade.
Meantime, I'm taking pain pills for the back pains, will use them up as I get the big machines and tools set up for ease of access, and keeping my eyes off the .22 gauge loads that fit my one rifle, it's too tempting to see if I can ventilate my boots, they cost too much!

Thanks for the hints, I'm almost at the time frame when I need a hint of a direction to a place where someone smarter than I am makes and sells 160 meter antennas!

My sutures come out Tuesday morning, and I hope I get a petty little "knit and cut" nurse, instead of that surgeon, he nearly choked when he had to suppress a guffaw, had asked me "Any questions about this procedure?", so I stated, calmly, "Will I be able to do the 100 yard dash after this is done?". Two nurses across the hall heard me, they looked at me as though my head had Swiss cheese running out of my ears. I tell many friends that I thought my head had silly putty in it, until I looked at the young, drunk woman driver of the SUV that tore off the porch of the office across the street, then mowed down my fence, put holes in the side of the workshop!
Guess who has to pay for the rebuild, since she has NO insurance, and I hope she lost her driver's license!

73's, I enjoy your finding your own bloopers, makes me recall the T-282 transmitter, Korean War vintage, that I ended up memorizing over my three years in Oregon, hated that UHF monster! (No one let me know when the Air Force removed that building, I'd have volunteered to destroy part of it with a sledge hammer!)

Gil WA5YKK

On 12/1/2013 6:59 PM, Steven Weber wrote:
>
> Well, it seems I need to go out back and shoot myself in the other foot.
> Just found a minor problem with the new firmware I sent out while double

> checking the instructions for the manual revisions for this firmware.
>
> Seems I got the band selection reversed. It comes up as 80M in the 160M
> filter switch position.
>
> There are three ways to fix this:
> 1) Swap around the fitler parts (not too practical an idea if you've
> already
> installed the parts)
> 2) Do a "cut and jump" to reverse the connetion on S3 going to R30. (good
> thing I made ground the common pin on the switch!)
> 3) Reprogram the band selections using CAL mode so Band A is 80M and
> Band B
> is 160 M. This is the easiest option.
>
> I'll fix this with the chips I haven't sent out yet, which are
> primarly to
> DX stations.
>
> Sorry about this.
>
> Steve KD1JV
>
>

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http://www.avast.com

12173. Re: [AT_Sprint] New MBDC firmware chip

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-02 03:07:30 UTC
From: John Evans
Topic: 12170 Message: 12173

I'm all for sending my MCU back to Steve for reprogramming.

72 - john - n0hj

12174. schematic ATS4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-03 16:09:24 UTC
From: <michaelthomas.bauer@...>
Topic: 12174 Message: 12174

isn´t there anywhere a full scaled schematic of the ats 4a .. i´m missing the rx part of the rig at total..

tnx

michael

12175. New manual for REV 1 firmware

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-03 19:17:21 UTC
From: <steve.kd1jv@...>
Topic: 12175 Message: 12175

I just up loaded the new manual to the MBDC folder for the chip many of you just received. The original manual has been renamed mbdc_old.

The new manual explains how to reprogram the band selection, which can be used to fix the inverted default band switch selection. This only takes a minute to do. While you can send the chip back to me to reprogram (you might want to send the original chip), it will be quicker and easier just to reprogram the band selection yourself.

If you do send the chip back, you'll want to package it a little better then the way I did, had at least one tare through the envelope and get lost. Should have taped around the inert I made so it couldn't slip out.

Steve KD1JV

12176. Re: [AT_Sprint] schematic ATS4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-03 19:32:41 UTC
From: Steven Weber
Topic: 12174 Message: 12176

I've upload the ATS-4A manual to the files section. Don't know why it wasn't already there. I think I was still sending out CD's with the manual on it.

KD1JV

isn´t there anywhere a full scaled schematic of the ats 4a .. i´m missing the rx part of the rig at total..

12177. Re: [AT_Sprint] schematic ATS4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-03 20:05:49 UTC
From: Gil WA5YKK
Topic: 12174 Message: 12177

Steve;

Got a bit of a surprise in the letter section of the Post Office today, "a chip, a diode, and a resistor" are in the envelope, so that item came through FB. Now, to download the manual, start looking for all the kits. Somehow, between now and late springtime, I have to do the renovation of my workshop, my "hobby cabin", and get all the rigs going. With luck, I can get antennas set up,but someone needs to take pity on an old ham op, point me at the place where I can get directions on a 160 meter antenna!

73's

Gil WA5YKK

On 12/3/2013 1:32 PM, Steven Weber wrote:
>
> □
>
> I've upload the ATS-4A manual to the files section. Don't know why it
> wasn't already there. I think I was still sending out CD's with the
> manual on it.
> KD1JV
>
>
> isn´t there anywhere a full scaled schematic of the ats 4a .. i´m
> missing the rx part of the rig at total..
>
>
>
>
>
>
>
>

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

12178. Re: [AT_Sprint] schematic ATS4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-03 21:16:36 UTC
From: Steven Weber
Topic: 12174 Message: 12178

First, get a really long piece of wire....

KD1JV

With luck, I can get antennas set up,but someone needs to take pity on an old ham op, point me at the place where I can get directions on a 160 meter antenna!

73's

Gil WA5YKK

12179. Re: [AT_Sprint] schematic ATS4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-03 21:30:51 UTC
From: Hank Greeb
Topic: 12174 Message: 12179

Most any length of wire, preferably 100 feet or longer, and as high as you can get it, can be matched with a transmatch to 50 ohms. The higher the better, and the best counterpoise/ground plane you can muster, will make it more efficient. But, my pappy used a 100 foot or so piece of wire, with just a simple ground steak, loaded it with a pi-network tuner, and talked all over southeast New Brass Key when I was a kid. Personally, I use an 80 meter doublet, configured as an inverted V, to which I add about 60' of wire on each end at about 10' off the ground. I feed it with 400 ohm (nominal) window line, and use a LDG 4/1 balun and a LDG Z-100 tuner to convert the impedance to 50 ohms. I sometimes have to adjust the length of the extension wires if I want to deviate too far from 1800-1850 KHz, but that's a matter of trial and error.

There's discription of couple vertical antennas in recent QST magazines, if you don't have access to QST I can look them up and send you copies.

72/73 de n8xx Hg
QRP >99.44% of the time

On 12/3/2013 16:16 PM, Steven Weber wrote:
> ☐
>
> First, get a really long piece of wire....
> KD1JV
>
> With luck, I can get antennas set up,but someone needs to take pity
> on an old ham op, point me at the place where I can get directions on
> a 160 meter antenna!
>
> 73's
>
> Gil WA5YKK
>
>
>
>
>

12180. Re: schematic ATS4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-03 21:38:04 UTC
From: cloud runner
Topic: 12174 Message: 12180

Hamburger????

> simple ground steak,

12181. Re: [AT_Sprint] 160 metet antenna

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-03 21:40:03 UTC
From: Gil WA5YKK
Topic: 12174 Message: 12181

Unh, yeah, I was warned about that, and my sister is "retired and tired of long pieces of wore", my best guess is to put them up on the quarter-of-a-block size lot, then stick a lot of stiff wire in the ground for a counterpoise, "tune for minimum smoke".

I think I can fudge in "connecting pieces of wire" on my acre-sized lot in Yorktown, got a new wire loom fence going in soon. Maybe the collection of color TV tube "loops to make the color guns go where they need to go" on the ancient old sets would come in handy.
"Any old port in a storm"

73's
Gil WA5YKK

On 12/3/2013 3:16 PM, Steven Weber wrote:
>
> □
>
> First, get a really long piece of wire....
> KD1JV
>
> With luck, I can get antennas set up,but someone needs to take pity
> on an old ham op, point me at the place where I can get directions on
> a 160 meter antenna!
>
> 73's
>
> Gil WA5YKK
>
>
>

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

12182. Re: [AT_Sprint] Re: schematic ATS4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-03 21:58:20 UTC
From: Hank Greeb
Topic: 12174 Message: 12182

Naww, I like the 97% beef version with < 3% fat, or the stuff from
Bison, which is naturally low fat.

72/73 de n8xx Hg
QRP >99.44% of the time

On 12/3/2013 16:38 PM, cloud runner wrote:
> □
>
> Hamburger????
> > simple ground steak,

12183. Re: schematic ATS4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-03 22:13:41 UTC
From: cloud runner
Topic: 12174 Message: 12183

The oldest trick-in-the-book. i should have known.

(with apologies to Maxwell Smart ;-)

Naww, I like the 97% beef version with < 3% fat, or the stuff from Bison, which is naturally low fat.

72/73 de n8xx Hg
QRP >99.44% of the time

Hamburger????

> simple ground steak,

12184. Re: schematic ATS4a

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-03 22:57:56 UTC
From: <chris@...>
Topic: 12174 Message: 12184

You guys are bad. Chris KQ6UP

12185. ARRL 160 Contest begins this weekend

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-04 05:47:45 UTC
From: Hank Greeb
Topic: 12185 Message: 12185

Tooth (2nd) Notice: The ARRL 160 meter contest starts 2200 UTC Friday, ends 1600 UTC Sunday (December 6-8, 2013). This is a forty-two hour period with no time limitation. (n8xx note - IF you can make many contacts while the sun is shining in your area, well, then, you are in an area where the number of 160 meter ops are very densely situated.)

Rules for this event are at http://www.arrl.org/160-meter

Note that there IS a QRP category, and there are quite a few entries in the QRP category (81 from US/Canada out of 1047 entries from the same area.

As I sed before, this would be a GRRR8 chance for those in the group which have a working Multi Band Direct Conversion (MBDC) rig working on 160 to put it through its paces.

So, you may wish to crank up that MBDC make sure your antenna is usable on 160, & give it a whirl!

72/73 de n8xx Hg
QRP >99.44% of the time

12186. Re: [AT_Sprint] 160 metet antenna

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-04 13:36:56 UTC
From: Steve Ireland
Topic: 12174 Message: 12186

Hi Gil

Simplest way to get going is to put up a low dipole – even if you just get at least the middle half up in the air 20 to 30’ above ground you’ll make some contacts. Inverted-Ls and counterpoises take a bit more work.

Vy 73

Steve, VK6VZ (160m since 1971 – initially as G3ZZD)

From: Gil WA5YKK
Sent: Wednesday, December 04, 2013 5:40 AM
To: AT_Sprint@yahoogroups.com
Subject: Re: [AT_Sprint] 160 metet antenna

Unh, yeah, I was warned about that, and my sister is "retired and tired of long pieces of wore", my best guess is to put them up on the quarter-of-a-block size lot, then stick a lot of stiff wire in the ground for a counterpoise, "tune for minimum smoke".

I think I can fudge in "connecting pieces of wire" on my acre-sized lot in Yorktown, got a new wire loom fence going in soon. Maybe the collection of color TV tube "loops to make the color guns go where they need to go" on the ancient old sets would come in handy.
"Any old port in a storm"

73's
Gil WA5YKK

On 12/3/2013 3:16 PM, Steven Weber wrote:

□

First, get a really long piece of wire....

KD1JV

With luck, I can get antennas set up,but someone needs to take pity on an old ham op, point me at the place where I can get directions on a 160 meter antenna!

73's

Gil WA5YKK

This email is free from viruses and malware because avast! Antivirus protection is active.

12187. Re: [AT_Sprint] 160 metet antenna

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-04 14:46:58 UTC
From: Gil WA5YKK
Topic: 12174 Message: 12187

Steve;

There are a few others who have advised something of the same idea, so I have a bizarre idea to fake out someday, when the cold fronts have finished blasting through. I have to be careful on this island city lot, there are many rental cabins that my Dad built, starting in 1937, they all are "set back from the fence" about ten feet or so, I got an idea to attach the tallest pole of fiberglass I can find to the corners of each one, they are in a "C" formation with the entrance through the fence being the opening of the "C", my ham radio cabin is one end of the "C", another cabin is at the other end. My main worry is about the ratty city kids who move here with their parents, the types who have "0" on their foreheads, enjoy destroying the picket fence that my sister had installed longish ago, thus I'm considering an intrusion alarm of some type, to alert me to "ratty kid jumping the fence to get to anything in the yard".
By setting up the tallest flex pole possible, I can jury-rig a LONG piece of wire, or perhaps a lot of TV lead in, from one cabin at the entrance to my cabin, run a counterpoise off one side, place a LONG length of ground - resistant wire at the bottom of the fence itself, then attach a hefty tuner to all the wire. Might even work, the only real problem is in guying the poles, need to keep them as small and not-easy-to-see as possible, yet high enough to do the trick. If the local high school wasn't just two blocks away, I wouldn't have any problems with "teen gangs of no brains, pulling stunts of destruction", seems to be a common theme with city kids who move here with their parents, they tend to be beer drinkers or worse, give their kids money to "go get a burger and sneak in a beer", think up the most destructive activity possible.
Strangely, I carefully built two 80 meter and 40 meter "coax dipoles", have yet to try setting them up due to work interfering with hobby items, then my dizzy sister thinks it's cool to run over anything left on the ground with the riding lawn mower! I have no idea why she hates ham radio and antennas so much, but I have to replace a coax dipole a little too often. If she doesn't do the damage, she hires some "zero brain" to weed-eat the fenceline, also around the cabins, and that plastic line can do some damage to wire antennas, even hot and cold water PVC valves, set up for ease of turning off each cabin as is needed for maintenance. You can't believe how much work it is to shut off the main water supply line, dig down around the fractured pipe, replace the valve with a new one, note the damage to the building, even.

The latest "stopping point" happened when a drunk woman did 85 mph down the main city street, her SUV jumped the curb, hit and knocked down the ad sign poles, incredibly huge "power pole" type, slid up the fallen

poles, flipped over, landed on its driver side, skidded sideways across the street, rammed and flattened my very heavy fence, ended up ramming and breaking half the wall of my one cabin! I now wait for cold weather to blast past, get wood and "interior tool items" out of the workshop, let the contractor replace everything. Drunk drivers usually kill themselves, but she was "lucky", got out of the wreck with a broken left arm and leg. Of course, NO insurance, she is one of the types who buys a buggy, makes one payment, cancels it after getting the license tag, and drives like a suicide type!
I noted that my ground radial for another antenna idea did survive, it was lightly buried to keep the "weed trimmer" idiot from damaging it.

Thanks for the ideas, 73's
Gil WA5YKK

On 12/4/2013 7:36 AM, Steve Ireland wrote:
>
> Hi Gil
> Simplest way to get going is to put up a low dipole – even if you just
> get at least the middle half up in the air 20 to 30’ above ground
> you’ll make some contacts. Inverted-Ls and counterpoises take a bit
> more work.
> Vy 73
> Steve, VK6VZ (160m since 1971 – initially as G3ZZD)
> *From:* Gil WA5YKK <mailto:WA5YKK@...>
> *Sent:* Wednesday, December 04, 2013 5:40 AM
> *To:* AT_Sprint@yahoogroups.com <mailto:AT_Sprint@yahoogroups.com>
> *Subject:* Re: [AT_Sprint] 160 metet antenna
>
> Unh, yeah, I was warned about that, and my sister is "retired and
> tired of long pieces of wore", my best guess is to put them up on the
> quarter-of-a-block size lot, then stick a lot of stiff wire in the
> ground for a counterpoise, "tune for minimum smoke".
>
> I think I can fudge in "connecting pieces of wire" on my acre-sized
> lot in Yorktown, got a new wire loom fence going in soon. Maybe the
> collection of color TV tube "loops to make the color guns go where
> they need to go" on the ancient old sets would come in handy.
> "Any old port in a storm"
>
> 73's
> Gil WA5YKK
>
>

This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

12188. MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-04 18:45:10 UTC
From: k1thp
Topic: 12188 Message: 12188

I received the new chip and attempted to set up the switch positions according to the new builders manual. The new positions do not appear to be saved. When I place the slide switches toward the rear the display shows 1.860 and when I move them towards the front I get 3.560.
I also no longer have output on either band. When listening on my K3 I cannot hear a signal. As I adjust the trimmer on the Oscillator board CCW I reach a point where the displays shifts contrast and I can start to hear the signal on the K3 and it is weak. Are the BS170's fried? They don't measure a short but show a high resistance source to drain. This rig probably won't make it to the contest this weekend!

HELP!

Dave K1THP

12189. Re: [AT_Sprint] MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-04 19:32:44 UTC
From: Steven Weber
Topic: 12188 Message: 12189

When you restart the band setting routine, it starts from scratch, so it doesn't show what it was set to before.

Once again, the proper setting is 160 is with S3 (and S4) towards the rear of the board and 80 towards the front.

As for no power out, that is harder to explain. Try the original chip again as see if it works with that one. If the display shifts contrast, then your supply voltage has to be dropping a lot to loose regulation on the 5V line. That could be your turning the '170's on so much they are drawing excessive current or your using a dead battery or a supply which can not supply sufficent current.

Steve KD1JV

>I received the new chip and attempted to set up the switch positions
>according to the new builders manual. The new positions do not appear to be
>saved. When I place the slide switches toward the rear the display shows
>1.860 and when I move them towards the front I get 3.560.
> I also no longer have output on either band. When listening on my K3 I
> cannot hear a signal. As I adjust the trimmer on the Oscillator board CCW
> I reach a point where the displays shifts contrast and I can start to hear
> the signal on the K3 and it is weak. Are the BS170's fried? They don't
> measure a short but show a high resistance source to drain. This rig
> probably won't make it to the contest this weekend!
>
> HELP!
>
> Dave K1THP
>
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> Yahoo Groups Links
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12190. Re: MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-04 22:29:50 UTC
From: k1thp
Topic: 12188 Message: 12190

Steve, What you said in the E-mail is opposite of what is in the revised manual. In the manual it says to set up A for 80 with the switch to the rear and 160 for B with the switch facing the front. That is opposite from the way the filter toroids are installed on the board. I will give it another try after supper. Also my power supply is a CUP36-12-1 B2 rated at 13.6 Volts at 2.4 amps. I use it to run my KD1JV Tribander and my KX-1 with no problems.
73,

Dave
--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> When you restart the band setting routine, it starts from scratch, so it
> doesn't show what it was set to before.
>
> Once again, the proper setting is 160 is with S3 (and S4) towards the rear
> of the board and 80 towards the front.
>
> As for no power out, that is harder to explain. Try the original chip again
> as see if it works with that one. If the display shifts contrast, then your
> supply voltage has to be dropping a lot to loose regulation on the 5V line.
> That could be your turning the '170's on so much they are drawing excessive
> current or your using a dead battery or a supply which can not supply
> sufficent current.
>
> Steve KD1JV
>
> >I received the new chip and attempted to set up the switch positions
> >according to the new builders manual. The new positions do not appear to be
> >saved. When I place the slide switches toward the rear the display shows
> >1.860 and when I move them towards the front I get 3.560.
> > I also no longer have output on either band. When listening on my K3 I
> > cannot hear a signal. As I adjust the trimmer on the Oscillator board CCW
> > I reach a point where the displays shifts contrast and I can start to hear
> > the signal on the K3 and it is weak. Are the BS170's fried? They don't
> > measure a short but show a high resistance source to drain. This rig
> > probaand my KX-1 with no problems.
--- In Ably won't make it to the contest this weekend!
> >
> > HELP!
> >
> > Dave K1THP
> >
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> >
> > Yahoo Groups Links
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12191. Re: [AT_Sprint] Re: MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 01:24:04 UTC
From: Steven Weber
Topic: 12188 Message: 12191

>
> Steve, What you said in the E-mail is opposite of what is in the revised
> manual. In the manual it says to set up A for 80 with the switch to the
> rear and 160 for B with the switch facing the front.

Your not reading it quite right. The new processor has the switch sense backwards, so it thinks band A is towards the front and B is to the rear. So to fix this you must redefine the band selection so that band A is 80, (switch now towards the front) and band B is 160 (switch now towards the rear) as specified here:
NOTE: If you have one of the new firmware chips with the band selection reversed, Program Band A to 80 meters and Band B to 160 meters.

Is it really that confusing? I suppose it must be.

Steve KD1JV

12192. FS PFR3

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 01:34:22 UTC
From: Dale Putnam
Topic: 12192 Message: 12192

Doc - K0EVZ has a PFR3 for sale. This will work when you get it, because I will guarantee it to work at least as well, and this one works better than published.. This is the famous YELLOW RADIO!It is has just been checked over by Steve Weber!Doc will sell this radio to you for $265 shipped to your continental US house. You can chase dx, chase fox, and simply have a whole lot of fun.Just in time for Christmas, get this one for that special radio nut this year! First check or money order will get a great radio.
Have a great day,

--... ...-- Dale - WC7S in Wy
Have a great day,

--... ...--
Dale - WC7S in Wy

12193. Re: MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 03:00:58 UTC
From: k1thp
Topic: 12188 Message: 12193

Well that is what I ended up with and the Rx works fine except for some BC blowby. I have heard quite a bit of Eu dx on 80 this evening. Its the TX that is making me nuts. I get 1V p-p across 50 Ohms on 160 and 1.25V p-p across 50 Ohms on 80M. I am measuring with a Tek 2445 scope. I double checked the capacitor values and the turns on the filters and they all are according to the manual The supply is stable at around 13.5 volts. An interesting side note is that as you turn the blue trim pot ccw the output goes from zero then peaks and falls back to zero. If you continue after that the display starts to change contrast but it is after the peak. I was watching it on the Elecraft P3 panadapter. The output is very clean! If I keep the key down, the BS170 fets warm up but not enough to burn my finger. All three are about the same heat (subjective). Where do I go from here?

73, Dave

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> >
> > Steve, What you said in the E-mail is opposite of what is in the revised
> > manual. In the manual it says to set up A for 80 with the switch to the
> > rear and 160 for B with the switch facing the front.
>
> Your not reading it quite right. The new processor has the switch sense
> backwards, so it thinks band A is towards the front and B is to the rear. So
> to fix this you must redefine the band selection so that band A is 80,
> (switch now towards the front) and band B is 160 (switch now towards the
> rear) as specified here:
> NOTE: If you have one of the new firmware chips with the band selection
> reversed, Program Band A to 80 meters and Band B to 160 meters.
>
>
> Is it really that confusing? I suppose it must be.
>
> Steve KD1JV
>

12194. Re: MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 03:30:49 UTC
From: k1thp
Topic: 12188 Message: 12194

Well that is what I ended up with and the Rx works fine except for some BC blowby. I have heard quite a bit of Eu dx on 80 this evening. Its the TX that is making me nuts. I get 1V p-p across 50 Ohms on 160 and 1.25V p-p across 50 Ohms on 80M. I am measuring with a Tek 2445 scope. I double checked the capacitor values and the turns on the filters and they all are according to the manual The supply is stable at around 13.5 volts. An interesting side note is that as you turn the blue trim pot ccw the output goes from zero then peaks and falls back to zero. If you continue after that the display starts to change contrast but it is after the peak. I was watching it on the Elecraft P3 panadapter. The output is very clean! If I keep the key down, the BS170 fets warm up but not enough to burn my finger. All three are about the same heat (subjective). Where do I go from here?

73, Dave

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> >
> > Steve, What you said in the E-mail is opposite of what is in the revised
> > manual. In the manual it says to set up A for 80 with the switch to the
> > rear and 160 for B with the switch facing the front.
>
> Your not reading it quite right. The new processor has the switch sense
> backwards, so it thinks band A is towards the front and B is to the rear. So
> to fix this you must redefine the band selection so that band A is 80,
> (switch now towards the front) and band B is 160 (switch now towards the
> rear) as specified here:
> NOTE: If you have one of the new firmware chips with the band selection
> reversed, Program Band A to 80 meters and Band B to 160 meters.
>
>
> Is it really that confusing? I suppose it must be.
>
> Steve KD1JV
>

12195. ATT: Steve Weber MBDC problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 05:00:54 UTC
From: <wlinn.linn@...>
Topic: 12195 Message: 12195

Not a new topic but Yahoo's "Reply" function wouldn't work with my Linux OS..

I think I understand your instructions in the latest manual for those of us who got the chip with the band identification sense reversed. However, when I go into the routine you describe, I get no indication of "Band A" or "Band B" and when I get to the band selection and scroll through the bands the selection does not "roll over from 10 back to 160, instead it just stops there. (Which indicates that something is amiss.)

WA7ZYQ, a friend who lives here in town also bought a kit which he has not built and he should have his new chip by now. Since he isn't building the kit right away, I will see if he will loan me his chip and see if it acts differently.

Again, I get no indication of Band A or Band B to assign the band changes to. Makes me wonder if others are experiencing this? Or, perhaps I'm missing something even though your instructions seem clear enough?

Bill - W7WEL

12196. SMK-2

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 13:17:22 UTC
From: jack
Topic: 11565 Message: 12196

I am looking for 3 replacement pots for my Hendricks SMK-2. They are 10K ohm linears, made by Alpha.

12197. ATS3A power jack part number

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-01 06:44:53 UTC
From: <rogertraylor@...>
Topic: 12197 Message: 12197

Can anyone help me with a part number for an ATS3-A power jack. The 0.7mm power jack to be specific. Prefer Mouser or Digikey part numbers. Please reply to:
traylor@ece.orst.edu as my yahoo email bounces.
Thanks,
Roger
ND7PA

12198. RE: [AT_Sprint] ATS3A power jack part number

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 13:56:49 UTC
From: Dale Putnam
Topic: 12197 Message: 12198

Mouser number 171-3218-EX is a .7mm connector

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: rogertraylor@...
Date: Sat, 30 Nov 2013 22:44:53 -0800
Subject: [AT_Sprint] ATS3A power jack part number

Can anyone help me with a part number for an ATS3-A power jack. The 0.7mm power jack to be specific. Prefer Mouser or Digikey part numbers. Please reply to:
traylor@... as my yahoo email bounces.
Thanks,
Roger
ND7PA

12199. New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 15:40:02 UTC
From: John Evans
Topic: 12199 Message: 12199

Now that Steve has some experience with the import DDS boards, I wonder if this could be the catalyst for a tiny or at least smaller single band SSB rig for backpacking, perhaps with 3-5 or more watts out. I'd go for an 80m rig for near in communications.

72 - john - n0hj

12200. RE: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 15:51:38 UTC
From: Ed Manuel
Topic: 12199 Message: 12200

I'm queuing up for the next bath of MTR's.

Ed, N5EM

From: AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] On Behalf Of John Evans
Sent: Thursday, December 05, 2013 9:40 AM
To: at_sprint@yahoogroups.com
Subject: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Now that Steve has some experience with the import DDS boards, I wonder if this could be the catalyst for a tiny or at least smaller single band SSB rig for backpacking, perhaps with 3-5 or more watts out. I'd go for an 80m rig for near in communications.

72 - john - n0hj

12201. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 16:05:08 UTC
From: John Evans
Topic: 12199 Message: 12201

Indeed - a 3 band MTR would be absolutely perfect, in my opinion.

Oh, and surface mount components for the single band SSB rig would be just fine with me, too.

72 - john - n0hj

On Thu, Dec 5, 2013 at 8:51 AM, Ed Manuel <n5emqrp@...> wrote:

>
>
> I’m queuing up for the next bath of MTR’s.
>
>
>
> Ed, N5EM
>
>
> ----------
>
> *From:* AT_Sprint@yahoogroups.com [mailto:AT_Sprint@yahoogroups.com] *On
> Behalf Of *John Evans
> *Sent:* Thursday, December 05, 2013 9:40 AM
> *To:* at_sprint@yahoogroups.com
> *Subject:* [AT_Sprint] New rig for Santa's, er, Steve's wish list
>
>
>
>
>
> Now that Steve has some experience with the import DDS boards, I wonder if
> this could be the catalyst for a tiny or at least smaller single band SSB
> rig for backpacking, perhaps with 3-5 or more watts out. I'd go for an 80m
> rig for near in communications.
>
>
>
> 72 - john - n0hj
>
>
>
>
>

12202. WANTED: Unbuilt ATS-4B kit

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 17:28:10 UTC
From: John Evans
Topic: 12202 Message: 12202

On the off chance that someone has an unbuilt ATS-4B kit out there that they are willing to sell, I'd like to get buy one. Contact me off list with offers.

tnx es 72- john - n0hj

PS - Yes, I know there is one on the auction site currently.

12203. Re: [AT_Sprint] SMK-2

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 18:26:00 UTC
From: Steven Weber
Topic: 11565 Message: 12203

I belive the pots are sold by Mouser. You should be able to ID them and get the part number using thier search function.

I am looking for 3 replacement pots for my Hendricks SMK-2. They are 10K ohm linears, made by Alpha.

12204. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 18:39:49 UTC
From: Steven Weber
Topic: 12199 Message: 12204

Well, since these modules draw 125 ma all by themselfs, thier not real suitable for battery operated rigs. That's what it takes to power four MTR rigs! Plus I hate doing SSB rigs - people have a real hard time getting them to work so I have to do even more hand holding then usual. But you never know. Maybe I should see about converting the Survivor to SMT and 9834 VFO. And figure out how to get full power out over the full band...

72, Steve KD1JV

Now that Steve has some experience with the import DDS boards, I wonder if this could be the catalyst for a tiny or at least smaller single band SSB rig for backpacking, perhaps with 3-5 or more watts out. I'd go for an 80m rig for near in communications.

72 - john - n0hj

12205. FS PFR3

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 19:03:43 UTC
From: Dale Putnam
Topic: 12192 Message: 12205

Reposted from another reflector

To: pfr3_group@yahoogroups.com
From: k9dvmid@...
Date: Fri, 29 Nov 2013 06:32:09 -0800
Subject: [pfr3_group] FS PFR-3 with battery indicator.

For sale is a PFR-3 radio with an installed battery indicator. The battery indicator has not be calibrated. This radio was checked out by Dale Putnam and it works great. I have moved on to other radios for my QRP work and I don't use this one. It has the yellow silk screened case. Asking $250. ThanksBrett, K9DVM

12206. Re: [AT_Sprint] ATS3A power jack part number

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 19:27:57 UTC
From: Steven Weber
Topic: 12197 Message: 12206

That's the plug. He's looking for the jack on the board, which appears to be no longer available. The closest you can get now is a panel mount jack, which might fit if the board jack is removed. Mouser 163-4007-EX

Steve KD1JV

Mouser number 171-3218-EX is a .7mm connector

12207. RE: ATS3A power jack part number

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 20:19:33 UTC
From: <jgaffke@...>
Topic: 12197 Message: 12207

Weird.

I've ordered similar in the past and recall being spoiled for choices.

Try going to http://www.digikey.com/product-search/en/connectors-interconnects
select "Barrel - Power Connectors", then filter for "jack" and "0.7mm..."
Do not filter for "surface mount" or it will not return any results.

I get a couple dozen results, all of them right angle surface mount.
I suspect you want something like this one:
www.digikey.com/product-detail/en/PJ-032H-SMT-TR/CP-032HPJCT-ND/1530990

Get out your calipers and compare the old one with the dimensions in the data sheets.

The one used on the ATS3A has the switch inside, but that third contact is not actually used.

Jerry, KE7ER

12208. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 21:00:01 UTC
From: Hank Greeb
Topic: 12199 Message: 12208

Lettuce C. We could outsource all construction, testing, etc., to China or Bangladesh, along with use of counterfeit DDS boreds and off spec components. With these short cuts we might have a 5 watt multi-banned rig for <$20 like the 2 meter and 440 Mhz knock offs from there?

72/73 de n8xx Hg
QRP >99.44% of the time

On 12/5/2013 13:39 PM, Steven Weber wrote:
>
>
> Well, since these modules draw 125 ma all by themselfs, thier not real
> suitable for battery operated rigs. That's what it takes to power four
> MTR rigs! Plus I hate doing SSB rigs - people have a real hard time
> getting them to work so I have to do even more hand holding then
> usual. But you never know. Maybe I should see about converting the
> Survivor to SMT and 9834 VFO. And figure out how to get full power out
> over the full band...
> 72, Steve KD1JV
>
> Now that Steve has some experience with the import DDS boards, I
> wonder if this could be the catalyst for a tiny or at least
> smaller single band SSB rig for backpacking, perhaps with 3-5 or
> more watts out. I'd go for an 80m rig for near in communications.
>
> 72 - john - n0hj
>
>
>
>

12209. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 22:06:53 UTC
From: wmorrill@...
Topic: 12199 Message: 12209

Maybe go back to the basics, a tough little monobander. Cheap enough so
you could take two or three if you needed more bands for the outing.
Wait, maybe that has already been done.

N7WM

> Lettuce C. We could outsource all construction, testing, etc., to China
> or Bangladesh, along with use of counterfeit DDS boreds and off spec
> components. With these short cuts we might have a 5 watt multi-banned
> rig for <$20 like the 2 meter and 440 Mhz knock offs from there?
>
> 72/73 de n8xx Hg
> QRP >99.44% of the time
>
> On 12/5/2013 13:39 PM, Steven Weber wrote:
>>
>>
>> Well, since these modules draw 125 ma all by themselfs, thier not real
>> suitable for battery operated rigs. That's what it takes to power four
>> MTR rigs! Plus I hate doing SSB rigs - people have a real hard time
>> getting them to work so I have to do even more hand holding then
>> usual. But you never know. Maybe I should see about converting the
>> Survivor to SMT and 9834 VFO. And figure out how to get full power out
>> over the full band...
>> 72, Steve KD1JV
>>
>> Now that Steve has some experience with the import DDS boards, I
>> wonder if this could be the catalyst for a tiny or at least
>> smaller single band SSB rig for backpacking, perhaps with 3-5 or
>> more watts out. I'd go for an 80m rig for near in communications.
>>
>> 72 - john - n0hj
>>
>>
>>
>>
>
>

12210. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 22:54:06 UTC
From: <WilliamClay.Heilman@...>
Topic: 12199 Message: 12210

Something was once said about the possibility of SDR capabilities. This could be fun too.

Clayton
ke7ngo

12211. Re: [AT_Sprint] Re: MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 22:58:22 UTC
From: Steven Weber
Topic: 12188 Message: 12211

Make sure your getting the supply voltage to the BS170. Could be as simple as a bad connection to the drain choke. Or maybe the voltage keying fet isn't working, but that is much less likely.

Since you have a scope - follow the signal. You should see about 25-30 volt pulses on the drains of the BS170's and at the input to the filter. If you get that there, see where in the filter it goes away.

Steve

> Well that is what I ended up with and the Rx works fine except for some BC
> blowby. I have heard quite a bit of Eu dx on 80 this evening. Its the TX
> that is making me nuts. I get 1V p-p across 50 Ohms on 160 and 1.25V p-p
> across 50 Ohms on 80M. I am measuring with a Tek 2445 scope. I double
> checked the capacitor values and the turns on the filters and they all are
> according to the manual The supply is stable at around 13.5 volts. An
> interesting side note is that as you turn the blue trim pot ccw the output
> goes from zero then peaks and falls back to zero. If you continue after
> that the display starts to change contrast but it is after the peak. I was
> watching it on the Elecraft P3 panadapter. The output is very clean! If I
> keep the key down, the BS170 fets warm up but not enough to burn my
> finger. All three are about the same heat (subjective). Where do I go from
> here?
>

12212. Re: [AT_Sprint] ATT: Steve Weber MBDC problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-05 23:20:36 UTC
From: Steven Weber
Topic: 12195 Message: 12212

Again, I get no indication of Band A or Band B to assign the band changes to. Makes me wonder if others are experiencing this? Or, perhaps I'm missing something even though your instructions seem clear enough?

I think your trying to use the wrong function. BAND as selected by the menu switch during normal operation simply loads that frequency, it does not change the band assigment of the band select switch or change the band limits for transmitting. To redifine the bands selected by the switch, you have to get into the calibration mode.

Enter the calibration mode by turning the rig on with the MENU switch closed.

The display will read

125,000,000
CAL

Push the MENU switch again to "click" past this (or calibrate the DDS frequency first)

Now the display will read:

160 SET A?

That is asking if you want to set band A to be 160 meters. No, you want it to be 80, so push the MENU switch again to make the display show 80 SET A? and push the encoder switch.

Now the display will advance to read 40 SET B? No, you want it to be 160, so push the MENU switch 6 times to get back to 160.

You will see:

30 SET B? (push switch) 20 SET B? (push switch) 17 SET B? (push switch) 15 SET B? (push switch) 10 SET B? (push switch) and then finally 160 SET B?

I would have made the display message a little more explicit, but I ran out of memory. I had 4096 bytes to use, I used 4096 bytes!

12213. Re: [AT_Sprint] SMK-2

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-06 01:38:14 UTC
From: <k4byf@...>
Topic: 11565 Message: 12213

Hi Steve, I tried the Mouser on line catalog, but couldn't find the right pot. Maybe I'm just too dumb!! I changed a couple of component values on the SMK-2 and decided to do the resoldering in the toaster oven. However, I forgot about the plastic shafts on the pots!! I want to get this thing off the bench so I can take my MTR kit out of the box and get it on the air!! Thanks for taking time to answer. 72 de Jack
---- Steven Weber <steve.kd1jv@...> wrote:
> I belive the pots are sold by Mouser. You should be able to ID them and get the part number using thier search function.
>
> I am looking for 3 replacement pots for my Hendricks SMK-2. They are 10K ohm linears, made by Alpha.
>
>

12214. Re: MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-06 02:16:25 UTC
From: k1thp
Topic: 12188 Message: 12214

At key down the drain voltage is 13.3Vdc. The input to the filter (output of C41) is a distorted (square wave with spikes) 1.5V p-p. The output of the filter is a clean 1.4V p-p sine wave. Also, the gate drive is a dirty square wave at 1.3 volts peak above ground. Looks like the gates are loading the 74AC00 chip output. The other night this whole board was putting out about 5W on 80M and 3.5W on 160M so I have some confidence in the build. I might be able to get BS170's locally but at inflated prices or will buy (or barter) from you if possible.
What now?
73 Dave

--- In AT_Sprint@yahoogroups 1.4V p-p sine wave
.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
> Make sure your getting the supply voltage to the BS170. Could be as simple
> as a bad connection to the drain choke. Or maybe the voltage keying fet
> isn't working, but that is much less likely.
>
> Since you have a scope - follow the signal. You should see about 25-30 volt
> pulses on the drains of the BS170's and at the input to the filter. If you
> get that there, see where in the filter it goes away.
>
> Steve
>
>
> > Well that is what I ended up with and the Rx works fine except for some BC
> > blowby. I have heard quite a bit of Eu dx on 80 this evening. Its the TX
> > that is making me nuts. I get 1V p-p across 50 Ohms on 160 and 1.25V p-p
> > across 50 Ohms on 80M. I am measuring with a Tek 2445 scope. I double
> > checked the capacitor values and the turns on the filters and they all are
> > according to the manual The supply is stable at around 13.5 volts. An
> > interesting side note is that as you turn the blue trim pot ccw the output
> > goes from zero then peaks and falls back to zero. If you continue after
> > that the display starts to change contrast but it is after the peak. I was
> > watching it on the Elecraft P3 panadapter. The output is very clean! If I
> > keep the key down, the BS170 fets warm up but not enough to burn my
> > finger. All three are about the same heat (subjective). Where do I go from
> > here?
> >
>

12215. Re: [AT_Sprint] ATT: Steve Weber MBDC problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-06 04:54:08 UTC
From: <wlinn.linn@...>
Topic: 12195 Message: 12215

Second try in responce to this info.. Finally understand..followed your instructions and it was a snap!

I had a very enjoyable evening working stations around the northwest.

Thanks for your patience and another FB little rig, they just continue to get better and better. Not any qrp rigs will compete with the standards you have set. Who can complain about a rock solid vfo, digital readout to a hertz, and a built in keyer with lots of memory and Beacon mode too! You get two bands for transceive operation and, if you are so minded, you can modify the little guy to function on most hf bands, just pick the two you want. Steve has also made provisions for out of band swl'ing. I'm sure there are other features I've missed.

Steve, if you have a spare kit stuck back somewhere that you would turn loose of, I'd like to build one for 40 and 20..

Bill - W7WEL

12216. RE: [AT_Sprint] ATS3A power jack part number

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-06 05:02:43 UTC
From: <rogertraylor@...>
Topic: 12197 Message: 12216

Thanks! I was actually looking for the plug instead. Steve answered me and took care of the part number.
Roger

12217. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-06 17:12:18 UTC
From: Steven Weber
Topic: 12199 Message: 12217

Something was once said about the possibility of SDR capabilities. This could be fun too.

I've already made firmware with X4 output on receive to use with a R2 board for someone. Of course, this limits the tuning range to the top of the 30 meter band. Otherwise, one could build an daughter board with a second HC4053 mixer and the flip-flop to tack in over the existing board. I'm thinking a second itteration of this project might include the second mixer and divider for generating the 90 degree LO. Maybe leave the complete audio chain on one channel to use as a monitor or stand alone use if desired.

Some other ideas I've had for this rig is make a low power AM transmitter using the voltage keying mosfet to modulate the output. Or you could scale back the output and drive a diode mixer to make DSB. Although doing this you'd really want to also add a linear amp to get some reasonable output.

Although I didn't make it real easy to add stuff to the board, I was hoping some of you would use it as a platform to expand upon and experiment with. That's one reason I allowed the receiver tuning range to take full avantage of the span the DDS is capable of.

Steve KD1JV

12218. Re: [AT_Sprint] Re: MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-06 17:35:53 UTC
From: Steven Weber
Topic: 12188 Message: 12218

Sounds like you blew the BS170's for sure. I wish I had realized the square wave output could be set to full on before I had the boards made!

Well, I got to go to town later, so if I can find your address in time, I'll send some '170's to you.

Steve KD1JV

> At key down the drain voltage is 13.3Vdc. The input to the filter (output
> of C41) is a distorted (square wave with spikes) 1.5V p-p. The output of
> the filter is a clean 1.4V p-p sine wave. Also, the gate drive is a dirty
> square wave at 1.3 volts peak above ground. Looks like the gates are
> loading the 74AC00 chip output. The other night this whole board was
> putting out about 5W on 80M and 3.5W on 160M so I have some confidence in
> the build. I might be able to get BS170's locally but at inflated prices
> or will buy (or barter) from you if possible.
> What now?
> 73 Dave

12219. MBDC preselector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-06 20:04:44 UTC
From: <ohwenzelph@...>
Topic: 11904 Message: 12219

what is anybody using or what is suggested? I looked at the ugly bandpass modules, i had built one for 20 but the one for 80 and 160 are much more involved.
jerry aa1of
franconia nh

12220. Re: [AT_Sprint] MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-07 00:48:11 UTC
From: John Roland
Topic: 12188 Message: 12220

Steve,
I suspect it may be related to the Band A/Band B thing but I just discovered that when you go to store the STR frequency say for 80 meters at 3551 and restart the rig, 3560 still comes up. If you switch S3/S4 to the back for 160 3551 comes up. The work around is just to store the desired starting frequency for 80 in the 160 S3/S4 position and vice-a-verse for 80. But for those of us who return our chips, it seems it would be nice to fix if possible, Also a minor thing is that if you select 17 m Band it wakes up at 18.680 which is outside the band, I suspect is was intended to be 18.068.
Please count me in if you ever need any beta-testers. I obviously don't have much to do.
Cheers, /John

On Wed, Dec 4, 2013 at 11:32 AM, Steven Weber <steve.kd1jv@...> wrote:

>
>
> When you restart the band setting routine, it starts from scratch, so it
> doesn't show what it was set to before.
>
> Once again, the proper setting is 160 is with S3 (and S4) towards the rear
> of the board and 80 towards the front.
>
> As for no power out, that is harder to explain. Try the original chip
> again
> as see if it works with that one. If the display shifts contrast, then
> your
> supply voltage has to be dropping a lot to loose regulation on the 5V
> line.
> That could be your turning the '170's on so much they are drawing
> excessive
> current or your using a dead battery or a supply which can not supply
> sufficent current.
>
> Steve KD1JV
>
> >I received the new chip and attempted to set up the switch positions
> >according to the new builders manual. The new positions do not appear to
> be
> >saved. When I place the slide switches toward the rear the display shows
> >1.860 and when I move them towards the front I get 3.560.
> > I also no longer have output on either band. When listening on my K3 I
> > cannot hear a signal. As I adjust the trimmer on the Oscillator board
> CCW

> > I reach a point where the displays shifts contrast and I can start to
> hear
> > the signal on the K3 and it is weak. Are the BS170's fried? They don't
> > measure a short but show a high resistance source to drain. This rig
> > probably won't make it to the contest this weekend!
> >
> > HELP!
> >
> > Dave K1THP
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12221. Re: [AT_Sprint] MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-07 02:05:37 UTC
From: Gil WA5YKK
Topic: 12188 Message: 12221

John, et all;

In my foggy, rather too long of items list, did I miss the idea of sending the original chips back to Steve? I have to find that package, first, on a "wish it wasn't freezing outside" floor.

73's
Gil WA5YKK

On 12/6/2013 6:48 PM, John Roland wrote:
> Steve,
> I suspect it may be related to the Band A/Band B thing but I just
> discovered that when you go to store the STR frequency say for 80
> meters at 3551 and restart the rig, 3560 still comes up. If you
> switch S3/S4 to the back for 160 3551 comes up. The work around is
> just to store the desired starting frequency for 80 in the 160 S3/S4
> position and vice-a-verse for 80. But for those of us who return our
> chips, it seems it would be nice to fix if possible, Also a minor
> thing is that if you select 17 m Band it wakes up at 18.680 which is
> outside the band, I suspect is was intended to be 18.068.
> Please count me in if you ever need any beta-testers. I obviously
> don't have much to do.
> Cheers, /John
>
>
> On Wed, Dec 4, 2013 at 11:32 AM, Steven Weber <steve.kd1jv@...
> <mailto:steve.kd1jv@...>> wrote:
>
> When you restart the band setting routine, it starts from scratch,
> so it
> doesn't show what it was set to before.
>
> Once again, the proper setting is 160 is with S3 (and S4) towards
> the rear
> of the board and 80 towards the front.
>
> As for no power out, that is harder to explain. Try the original
> chip again
> as see if it works with that one. If the display shifts contrast,
> then your
> supply voltage has to be dropping a lot to loose regulation on the
> 5V line.
> That could be your turning the '170's on so much they are drawing
> excessive
> current or your using a dead battery or a supply which can not supply
> sufficent current.

>
> Steve KD1JV
>
> >I received the new chip and attempted to set up the switch positions
> >according to the new builders manual. The new positions do not
> appear to be
> >saved. When I place the slide switches toward the rear the
> display shows
> >1.860 and when I move them towards the front I get 3.560.
> > I also no longer have output on either band. When listening on
> my K3 I
> > cannot hear a signal. As I adjust the trimmer on the Oscillator
> board CCW
> > I reach a point where the displays shifts contrast and I can
> start to hear
> > the signal on the K3 and it is weak. Are the BS170's fried? They
> don't
> > measure a short but show a high resistance source to drain. This
> rig
> > probably won't make it to the contest this weekend!
> >
> > HELP!
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> > Dave K1THP
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http://www.avast.com

12222. Re: MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-07 02:18:59 UTC
From: k1thp
Topic: 12188 Message: 12222

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
>
> Sounds like you blew the BS170's for sure. I wish I had realized the square
> wave output could be set to full on before I had the boards made!
>
> Well, I got to go to town later, so if I can find your address in time, I'll
> send some '170's to you.
>
> Steve KD1JV
>
> Thank Steve, but I got some locally. There is a store in Newington, CT called Cables and Connectors and they had some on othe rack. Turned out to be pretty cheap, 3 for $1.89. So if you have not mailed them, don't worry. My final check was to punn the 74C00 and measure from pin6 (the Gate string) to source and drain. I measured 300 Ohms gate to drain! So I went to Cables and connectors picked up the transistors as well as some parts for other repairs and projects. the only downer was the 15 mile trip to a road that is populated with shopping centers.

I also installed the key pop mod and find that it now really pops. Testing on a dummy load with a straight key. After I finish setting the power I may work some contest Pops or no Pops. Since I usually use a paddle it may not be a problem. Heck I've been shooting .45 Ball ammo for years and I still can hear.
73 and thanks for a fun project.

Dave
> > square wave at 1.3 volts peak above ground. Looks like the gates are
> > loading the 74AC00 chip output. The other night this whole board was
> > putting out abbe\
> > of C41) is a distorted (square wave with spikes) 1.5V p-p. The output of
> > the filter is a clean 1.4V p-p sine wave. Also, the gate drive is a dirty
> > square wave at 1.3 volts peak above ground. Looks like the gates are
> > loading the 74AC00 chip output. The other night this whole board was
>
> > At key down the drain voltage is 13.3Vdc. The input to the filter (output
> > of C41) is a distorted (square wave with spikes) 1.5V p-p. The output of
> > the filter is a clean 1.4V p-p sine wave. Also, the gate drive is a dirty
> > square wave at 1.3 volts peak above ground. Looks like the gates are
> > loading the 74AC00 chip output. The other night this whole board was
> > putting out ab
> > putting out about 5W on 80M and 3.5W on 160M so I have some confidence in
> > the build. I might be able to get BS170's locally but at inflated prices
> > or will buy (or barter) from you if possible.
> > What now?
> > 73 Dave

>

12223. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-07 03:10:19 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12223

Here's an interesting alternative to AM or DSB phone: http://codec2.org/
Especially interesting in that it can go through a non linear amp, being a single tone at any one instant.. So could transmit by manipulating the DDS and the keying FET, (Also true of PSK31.) I'd expect decode to be possible on a Tiva uC with just a few ma, perhaps even a high end MSP430 (or Steve's new DSP chip?). PSK31 decode is possible on a low end MSP430 as shown in the files section under KE7ER/pskuc.

I think a neat approach for a new project would be an MTR size and power budget single band base board with hooks for a second board to optionally support displays, multiple bands (using latching relays hand added to the base board?), antenna tuner, SDR or whatever. Autostuff one side of the base board with 0402's and fine pitch parts, enough parts to allow a quick go-nogo test before shipping. The buyer mostly winds coils, stuffs filters for a particular band, mounts connectors to the board (feedthroughs an connector pads to avoid pads ripping up). Autostuffing costs a few bucks but there's no need for Steve to cut and label so many dinky parts, which might go some end toward paying for the autstuff. More hams would be able to get something working. Those who really wish to get their hands dirty building could collaborate on creating daughterboards. Here's one potential board fab house: http://oshpark.com/

Jerry Gaffke, KE7ER, Flora OR -- cold here today!

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote: Some other ideas I've had for this rig is make a low power AM transmitter using the voltage keying mosfet to modulate the output. Or you could scale back the output and drive a diode mixer to make DSB. Although doing this you'd really want to also add a linear amp to get some reasonable output.

12224. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-07 04:48:42 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12224

JT9 could prove useful in a minimal power trail radio when you really need to punch a message through.

12225. RE: MBDC preselector

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-07 05:31:21 UTC
From: <ohwenzelph@...>
Topic: 11904 Message: 12225

HI, with the MBDC has anyone tried the "dual bandpass filter kit" from "kits and parts dot com" for 160 and 80? For me it would work out to under $15 including the shipping.
tnx
jerry aa1of

12226. MBDC

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-07 16:45:56 UTC
From: Bob Cutter
Topic: 12226 Message: 12226

If you have one operating on the air pse contact me off list for a sked.

72, Bob KIØG

12227. Re: [AT_Sprint] MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-07 18:24:06 UTC
From: Steven Weber
Topic: 12188 Message: 12227

Humm, I forgot that function would also be affected. Or I did and thought reassigning the band switch would take care of it. Minor detail :)

But anyway, if you do return a chip for reprogramming, that gets fixed when the switch selects the bands in the proper positions.

17M coming up wrong is a typo. Actually, the number is stored as binary and converted to BCD for display, as it is easier to work with binary numbers. It takes four bytes to store a frequency so I probably revesed the nibble in one of the words while typing it in. Another minor detail, but thanks for letting me know.

Steve

Steve,

I suspect it may be related to the Band A/Band B thing but I just discovered that when you go to store the STR frequency say for 80 meters at 3551 and restart the rig, 3560 still comes up. If you switch S3/S4 to the back for 160 3551 comes up. The work around is just to store the desired starting frequency for 80 in the 160 S3/S4 position and vice-a-verse for 80. But for those of us who return our chips, it seems it would be nice to fix if possible, Also a minor thing is that if you select 17 m Band it wakes up at 18.680 which is outside the band, I suspect is was intended to be 18.068.

Please count me in if you ever need any beta-testers. I obviously don't have much to do.

Cheers, /John

On Wed, Dec 4, 2013 at 11:32 AM, Steven Weber <steve.kd1jv@...> wrote:

When you restart the band setting routine, it starts from scratch, so it
doesn't show what it was set to before.

Once again, the proper setting is 160 is with S3 (and S4) towards the rear
of the board and 80 towards the front.

As for no power out, that is harder to explain. Try the original chip again
as see if it works with that one. If the display shifts contrast, then your
supply voltage has to be dropping a lot to loose regulation on the 5V line.
That could be your turning the '170's on so much they are drawing excessive
current or your using a dead battery or a supply which can not supply
sufficent current.

Steve KD1JV

>I received the new chip and attempted to set up the switch positions
>according to the new builders manual. The new positions do not appear to be
>saved. When I place the slide switches toward the rear the display shows
>1.860 and when I move them towards the front I get 3.560.

> I also no longer have output on either band. When listening on my K3 I
> cannot hear a signal. As I adjust the trimmer on the Oscillator board CCW
> I reach a point where the displays shifts contrast and I can start to hear
> the signal on the K3 and it is weak. Are the BS170's fried? They don't
> measure a short but show a high resistance source to drain. This rig
> probably won't make it to the contest this weekend!
>
> HELP!
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> Dave K1THP
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12228. Re: [AT_Sprint] MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-07 18:28:49 UTC
From: Steven Weber
Topic: 12188 Message: 12228

You can if you like as I can recyle the original chip, but you don't have to. But in your case Gil, you might want to send both back so I can fix the band switch assignment problem so that you don't have to remember to fix that on your own.

Steve

In my foggy, rather too long of items list, did I miss the idea of sending the original chips back to Steve? I have to find that package, first, on a "wish it wasn't freezing outside" floor.

73's
Gil WA5YKK

12229. MBDC parts inventory

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-07 21:24:09 UTC
From: <sigcom@...>
Topic: 12229 Message: 12229

Ol' Steve-o must have quite a 'kitting' system. I just finished inventorying the parts in my kit and, of hundreds of components, there was not one missing or of the wrong description or value. Quite impressive. There were 2 parts in the inventory not on the list, the 470pF disks (C12 & 13 in the audio filter) but they're on the schematic so no worries. Almost time to snort some rosin fumes.

Way to go, Steve!

73.....Steve Smith WB6TNL

12230. Re: MBDC Problem

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-07 22:06:11 UTC
From: k1thp
Topic: 12188 Message: 12230

Got the MBDC working last night. Have 5 watts on 80 and 2 Watts on 160. Set up 80 first then switched to 160 and found low power. Remover 4 turns from L2 the output toroid and 1 turn from the input toroid. Power went from 1/2 watt to two watts. Probably could have tweaked the vfo output pot but don't want to change the fets again. Worked several stations on 160. Not a contest grade radio but will provide lots of fun this winter on rag chews and some 80 meter qrp nets. BTW I removed C17 and WTIC is at very low level (barely noticible) during daytime and after they change the night pattern the problem is gone. The other local AMers don't make it in after the C17 removal.
Sending you the original chip so it can be recycled.
73,
Dave

--- In AT_Sprint@yahoogroups.com, "Steven Weber" <steve.kd1jv@...> wrote:
>
>
> Sounds like you blew the BS170's for sure. I wish I had realized the square
> wave output could be set to full on before I had the boards made!
>
> Well, I got to go to town later, so if I can find your address in time, I'll
> send some '170's to you.
>
> Steve KD1JV
>
>
>
> > At key down the drain voltage is 13.3Vdc. The input to the filter (output
> > of C41) is a distorted (square wave with spikes) 1.5V p-p. The output of
> > the filter is a clean 1.4V p-p sine wave. Also, the gate drive is a dirty
> > square wave at 1.3 volts peak above ground. Looks like the gates are
> > loading the 74AC00 chip output. The other night this whole board was
> > putting out about 5W on 80M and 3.5W on 160M so I have some confidence in
> > the build. I might be able to get BS170's locally but at inflated prices
> > or will buy (or barter) from you if possible.
> > What now?
> > 73 Dave
>

12231. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-08 04:59:43 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12231

A few more vague thoughts and then I'll try to quiet down.
I'd like to see another trail radio, small and easy on the batteries. But flexible enough to add standalone digital modes with that daughterboard thing. I think that means a crystal ladder filter and a single channel of audio, just like the MTR. Not two quadrature audio channels and no 4x oscillator. Fine to have an MSP430 on the baseboard, but should be hooks to the daughterboard to allow something like a Tiva to shut down the MSP430 and take full control. And if the daughterboard fails in the field, should be possible to bring it back to basic functionality using only the baseboard without special tools.
KE7ER

12232. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-08 06:09:42 UTC
From: Michael O'Bannon
Topic: 12199 Message: 12232

My vote is for a small dedicated trail rig for two-way digital modes, preferably not PSK31. I think there would be a lot of interest.

Best regards,
Michael KD4SGN
>

12233. Swapped 160 to 40

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-08 07:40:42 UTC
From: <wlinn.linn@...>
Topic: 12233 Message: 12233

Rewound inductors and replaced caps as per Steve's chart. Getting close to 5 watts output. NOTE- If you do this conversion, remove C50, it is 1500 pf and 1/2 of the 3000 pf used in the 160 meter filter. Steve's values are spot on. First station worked was in New York, also qrp. This little rig is amazing! Bill - W7WEL

12234. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-08 16:19:56 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12234

Available source code for digital modes is generally aimed at an x86 desktop/laptop. Porting to a trail friendly uC and creating a decent user interface will take months or years. Might not be a task Steve wants to take on. I'd be happy with an MTR that's easily expanded in new directions.
Anybody out there have the time and inclination to try decoding a favorite digital mode from receiver audio using something like the $12.99 Tiva Launchpad + DOGM display?
KE7ER

---In at_sprint@yahoogroups.com, <mob@...> wrote:
My vote is for a small dedicated trail rig for two-way digital modes, preferably not PSK31. I think there would be a lot of interest.

12235. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-08 16:46:27 UTC
From: Michael O'Bannon
Topic: 12199 Message: 12235

A box the size of an MTR that could be plugged into a tablet or
laptop for digital xmit and rcv would be interesting, particularly if
it would do 40, 30, and 20 meters.

72,
Michael KD4SGN

>
>
> Available source code for digital modes is generally aimed at an
> x86 desktop/laptop. Porting to a trail friendly uC and creating a
> decent user interface will take months or years. Might not be a
> task Steve wants to take on. I'd be happy with an MTR that's
> easily expanded in new directions.
>
> Anybody out there have the time and inclination to try decoding a
> favorite digital mode from receiver audio using something like the
> $12.99 Tiva Launchpad + DOGM display?
>
> KE7ER
>
>
> ---In at_sprint@yahoogroups.com, <mob@...> wrote:
> My vote is for a small dedicated trail rig for two-way digital
> modes, preferably not PSK31. I think there would be a lot of interest.
>
>
>

12236. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-08 19:56:29 UTC
From: Alan Dove
Topic: 12199 Message: 12236

Hey, folks:

Or plugged into a smartphone. In fact, just having a Rigblaster-type connection would let you move the computational heavy lifting onto a phone/tablet or whatever other pocket supercomputer folks will carry in the future.

- Alan (N3IMU)

Alan Dove, Ph.D.
917.273.0544
turbidplaque.com

> On Dec 8, 2013, at 11:46 AM, Michael O'Bannon <mob@mindspring.com> wrote:
>
> A box the size of an MTR that could be plugged into a tablet or laptop for digital xmit and rcv would be interesting, particularly if it would do 40, 30, and 20 meters.
>
> 72,
> Michael KD4SGN

12237. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-08 21:15:43 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12237

How would you go about plugging a rigblaster into a smartphone? How many hours till recharging when actively processing digital radio? I can imagine an entire Tiva based solution with display fitting into an altoids tin. With a nice quiet switcher, power requirements could be under that of the MTR. Granted, hooking an MTR like radio to an x86 laptop (or palmtop) is easier and more flexible, but perhaps best suited for car camping. The 64 pin LQFP TIva is a half inch across, includes a couple ADC's, hardware support for 32 bit floating point, would probably draw 1ma or so at 3.3v when performing the duties currently taken on by the MSP430. About $5 through digikey.

Even better would be to do most of this on Steve's little DSP chip, if possible. But existing programs would port much more easily to the Tiva.

KE7ER

12238. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-08 20:44:40 UTC
From: <chris.hansohn@...>
Topic: 12199 Message: 12238

Maybe Feld Hell would be a good mode for a QRP rig.

http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=0CDMQFjAB&url=http%3A%2F%2Fmy.tbaytel.net%2Fva3rom%2Fdocs%2FAFSK%2520Feld%2520Hell%2520to%2520OOK%2520Circuit%2520for%2520CW%2520Transmitters.pdf&ei=bNekUqyTEovrkQfP1oHwDw&usg=AFQjCNFKE5x60joCG76y8E3gzUp9Ive8GA&bvm=bv.57752919,d.eW0&cad=rja

12239. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-08 21:00:10 UTC
From: <chris.hansohn@...>
Topic: 12199 Message: 12239

Absolutely! There are several apps available for Hell, PSK31 and RTTY.

---In at_sprint@yahoogroups.com, <alan.dove@...> wrote:

Hey, folks:

Or plugged into a smartphone. In fact, just having a Rigblaster-type connection would let you move the computational heavy lifting onto a phone/tablet or whatever other pocket supercomputer folks will carry in the future.

- Alan (N3IMU)

12240. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-09 00:34:40 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12240

For a smartphone?
Is that' with an acoustic connection, from the radio's speaker into the phone's mic, for receive only, no control at all back into the radio? Though just monitoring like that could prove useful. I assume full functionality with software available to us using anything like a Rigblaster would take a bunch of cables, and a computer with a soundcard and an x86 processor. Perhaps something similar could be done over bluetooth with your phone, but that would take some work to get going, maybe more work than getting the Tiva to do it all. One other issue: Many have reported their MTR is unusable when in the vicinity of a cell phone.

---In AT_Sprint@yahoogroups.com, <chris.hansohn@...> wrote:
Absolutely! There are several apps available for Hell, PSK31 and RTTY.

12241. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-09 00:39:22 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12241

OK, I see there are some bidirecitonal Android apps out there for digital modes. But they assume you have the usual SSB transceiver.

12242. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-09 01:11:46 UTC
From: Gene Sailsbury
Topic: 12199 Message: 12242

Please remove this email from you list

From: "jgaffke@..." <jgaffke@...>
To: AT_Sprint@yahoogroups.com
Sent: Sunday, December 8, 2013 6:39 PM
Subject: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

OK, I see there are some bidirecitonal Android apps out there for digital modes. But they assume you have the usual SSB transceiver.

12243. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-09 01:23:24 UTC
From: Steven Weber
Topic: 12199 Message: 12243

Gene, only you can remove yourself from the list. That is done via the yahoo settings in your account. Unless of course, you would like to tell us your user name and password, then someone else can do it for you :)
----- Original Message -----
From: Gene Sailsbury
To: AT_Sprint@yahoogroups.com
Sent: Sunday, December 08, 2013 8:11 PM
Subject: Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Please remove this email from you list

12244. For sale: KD1JV ATS-4b QRP Tranceiver and Hendricks SLT+ Antenna Tuner

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-09 00:59:52 UTC
From: <af8f@...>
Topic: 12244 Message: 12244

On eBay:

KD1JV ATS-4b QRP Tranceiver and Hendricks SLT+ Antenna Tuner

12245. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-10 05:17:49 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12245

JT9 is 9-FSK, so 9 possible frequencies sent one at a time, should work fine through something like the MTR transmitter by manipulating the DDS. http://ac4m.us/jt9.html
Unfortunately, codec2 on HF typically uses the FDMDV modem on HF, which is a total of 15 different carriers sent simultaneously: http://n1su.com/fdmdv/FDMDV_Spec_v1_3a.pdf
KE7ER

---In at_sprint@yahoogroups.com, <jgaffke@...> wrote:
Here's an interesting alternative to AM or DSB phone: http://codec2.org/
Especially interesting in that it can go through a non linear amp, being a single tone at any one instant

12246. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-10 18:04:27 UTC
From: Steven Weber
Topic: 12199 Message: 12246

The MTR and all ATS rigs starting with the ATS-3B already does PSK, FSK and serveral other digital modes, even CW. The catch is you need to run Pocketdigi to interface to the rig.

The reason Pocketdigi is needed is because Vojtech, OK1IAK devised a unique audio modem to talk to the ATS rig via the paddle jack and take control of the DDS and T/R functions.

However, if JT9 requires 9 simultaneous frequencies, that can only be done with a SSB transmitter and a sound card.

KD1JV
JT9 is 9-FSK, so 9 possible frequencies sent one at a time, should work fine through something like the MTR transmitter by manipulating the DDS. http://ac4m.us/jt9.html
Unfortunately, codec2 on HF typically uses the FDMDV modem on HF, which is a total of 15 different carriers sent simultaneously: http://n1su.com/fdmdv/FDMDV_Spec_v1_3a.pdf

KE7ER

12247. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-10 18:28:33 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12247

I'd prefer something standalone and extremely low power, using a display and processor embedded in the rig. Not using a handheld PC. JT9 is 9 tone MFSK, one frequency at a time, so should work fine. Extremely slow, but could be handy as a last resort for getting a brief message through. Digital voice with Codec2 on HF uses the FDMDV modem which has 14 simultaneous QPSK carriers plus one BPSK carrier. So can't transmit it through the DDS, would require something like that SSB transmitter. The modems used with Codec2 at VHF/UHF are one frequency at a time, but consume much more bandwidth than we can use at HF.
KE7ER

12248. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-10 20:31:35 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12248

At codec2.org, it suggests the single tone modem used on the VHF bands works with 2.5 KHz of spectrum, less than that of an SSB station. And that figure could go down towards 2 KHz as development proceeds.
According to this article from Nov 2013, the ARRL is petitioning that the FCC allow any data transmission of 2.8KHz bandwidth or less on HF. If that goes through, an MTR like radio could send codec2 digital voice.
Note that while current rules restrict the digital symbol rate to 300 baud, they do not restrict how many bits you can stuff into a baud by using multiple carriers. The FDMDV modem is 50 baud with 2*14QPSK+1BPSK=29 bits per baud, for a data rate of 29*50=1450 bits per second. I'd guess the primary reason for the 15 carriers is to get around the current (rather archaic and arbitrary) rules for HF.
I've mentioned codec2 and JT9, which are at the far ends of speed (and link reliability) given current state of the art. There are of course many possibilities in between, such as JT65 and PSK31 Olivia and so on. If the MSP430 were swapped out for a $5 Tiva and the option of a DOGM display were accommodated (plus a DAC if we want voice out), we might be able to support any of those single tone modes with an MTR like radio. And Steve would never again have to count his remaining bytes of flash (until he starts coding in matlab).
KE7ER

12249. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-10 20:58:27 UTC
From: Michael O'Bannon
Topic: 12199 Message: 12249

Steve,

I looked into doing this several years ago, and IIRC, Pocketdigi only runs on PDAs. With much of the world using tablets and cellphones, this doesn't strike me as a very useful option today. There are only a limited number of hams who will be willing to track down and use a PDA that is unsupported and no longer manufactured.

72,
Michael KD4SGN

> □
>
> The MTR and all ATS rigs starting with the ATS-3B already does PSK,
> FSK and serveral other digital modes, even CW. The catch is you
> need to run Pocketdigi to interface to the rig.
> The reason Pocketdigi is needed is because Vojtech, OK1IAK devised
> a unique audio modem to talk to the ATS rig via the paddle jack and
> take control of the DDS and T/R functions.
> However, if JT9 requires 9 simultaneous frequencies, that can only
> be done with a SSB transmitter and a sound card.
> KD1JV

12250. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-10 22:06:47 UTC
From: Steven Weber
Topic: 12199 Message: 12250

Well, there's a project for you. That's beyond my area of expertise. I can flip bits and do simple math in assembly, but that's the extent of it. I'm an old hardware guy trying to do simple software. C++ confuses the bejesus out of me. It makes no sense what so ever.

If someone can write the code, (and buy the tools, which aren't cheap unless you can steal them from work) I'd be willing to use it....

KD1JV
I'd prefer something standalone and extremely low power, using a display and processor embedded in the rig. Not using a handheld PC. JT9 is 9 tone MFSK, one frequency at a time, so should work fine. Extremely slow, but could be handy as a last resort for getting a brief message through. Digital voice with Codec2 on HF uses the FDMDV modem which has 14 simultaneous QPSK carriers plus one BPSK carrier. So can't transmit it through the DDS, would require something like that SSB transmitter. The modems used with Codec2 at VHF/UHF are one frequency at a time, but consume much more bandwidth than we can use at HF.
KE7ER

12251. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-10 22:12:48 UTC
From: Steven Weber
Topic: 12199 Message: 12251

I looked into doing this several years ago, and IIRC, Pocketdigi only runs on PDAs.

Actually, it will also run on XP, so you can use a laptop, which is a more practical terminal then a PDA, Smartphone or Tablet, if for no other reason then it has a real keyboard.

KD1JV

12252. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-10 23:11:48 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12252

Yeah, I've not gotten much into C++ myself, what little coding I've done has been confined to C or Python. And I'm certainly no DSP guy, as anybody reading that KE7ER/pskuc.c file could tell.

I'd suggest a path forward something like this:

1)
Move MSP430 assembly for DDS and keyer and such over to C as it should have been 10 years ago, make sure it still works. (That's where I got hung up on pskuc.c, couldn't figure out your assembly well enough to plug into it after several days of staring.) The MSP430 is actually pretty good with C if you use the default 16 bit ints.

2)
Hold the MSP430 on an MTR in reset. Using the $12.99 Tiva Launchpad to drive all those MSP430 IO pins, see if you can get that C code to work properly on the Tiva. Compile using the free (as in beer) GNU tools. Verify that current draw is sufficiently low.

3)
Layout an MTR like board with the $5 Tiva processor. Include a connection for received audio into a Tiva ADC. Send a bunch of Tiva IO pins plus other nodes to connectors for daughterboards so we could add a DOGM display, better ADC, a DAC for phone reception, USB keyboard, perhaps expand on the number of bands supported using latching relays, a switching power supply for 3.3v (hopefully very clean), modulate the final. But should still have a working CW rig if you strip it down to just the baseboard.

4)
Magic happens.
Specifically, somebody steps forward and ports some of those digital modes over to the Tiva. Me, perhaps, if I have time later next year. If it never happens, you've added very little to the cost of the MTR by using the Tiva and now have oodles of flash and RAM to play in.

I certainly wont argue if you decide not to go for it. At least not much. Maybe a 64 pin LQFP is more than you want on the board (though only some of those pins need to be soldered down). Continuing to build small trail radios just as you have been would be more than good enough. But at least consider moving to a more capable uC, with hooks so your creations can be expanded in hardware as well as software.

Here's source for WSJT-X, with modes like JT9 and JT65:
http://physics.princeton.edu/pulsar/K1JT/wsjtx.html

Here's a webpage on Codec2 http://www.rowetel.com/blog/?page_id=452
Looks like he has packaged up his source very nicely for experimenting with.

Seems to me that if single carrier Codec2 on HF becomes possible through an FCC rule change, there would be plenty of folks that would go for it, simply to allow the use of a non-linear amp. And since the VHF modems would be in all those x86 software radio packages

with the proper hooks into Codec2, it would be very easy with for the average ham to talk to us with a standard x86 PC and SSB transceiver.

There may well be reasons other than FCC rules for FDMDV being 15 carriers on HF, I really wouldn't know. Could they have used 65 tones one tone at a time like JT65, sped up to 200 baud? And perhaps the 80 MHz Tiva won't have the horsepower to do an FFT fast enough. But given my experience with pskuc.c, I'm pretty sure we could at least get something going on PSK31

Jerry, KE7ER

12253. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-10 23:27:10 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12253

```
Step 0:
Vet the idea of running digital modes on an 80 MHz Tiva with guys over in one of the DSP
forums.
```

12254. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-11 02:07:40 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12254

Tiva probably won't run codec2 for voice, though sounds like it's within shouting distance:
http://www.mail-archive.com/freetel-codec2@lists.sourceforge.net/msg01870.html
Most of the other HF digital modes are considerably slower.

---In at_sprint@yahoogroups.com, <jgaffke@...> wrote:
Step 0: Vet the idea of running digital modes on an 80 MHz Tiva with guys over in one of the DSP forums.

12255. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-11 03:05:30 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12255

I have no idea what modem they were trying to run with, the bandwidth of the incoming audio they were dealing with, or if algorithm performance has improved since then. Also, the discussion was with regard to codec2 in duplex mode, we would be running simplex. The Tiva would not be a bad choice, codec2 is a worst case and not even a choice for us given current regulations. The STM32F4 mentioned in the discussion pointed to is also a possibility, with a $14.90 development kit and $8/part in 100's, same 64 pin LQFP package.

---In at_sprint@yahoogroups.com, <jgaffke@...> wrote:
Tiva probably won't run codec2 for voice, though sounds like it's within shouting distance:
http://www.mail-archive.com/freetel-codec2@.../msg01870.html
Most of the other HF digital modes are considerably slower.

12256. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-11 09:22:21 UTC
From: Colin Tuckley
Topic: 12199 Message: 12256

On 10/12/13 23:11, jgaffke@... wrote:

> I'd suggest a path forward something like this:

> Move MSP430 assembly for DDS and keyer and such over to C

Yes, I'd thought about doing that especially after I also found the alternative assembler code from W1MT which some people think is a better keyer.

> The MSP430 is actually pretty good with C if you use the default 16 bit ints.

Agreed, although the architecture design is a bit dated.

> Hold the MSP430 on an MTR in reset. Using the $12.99 Tiva Launchpad to
> drive all those MSP430 IO pins, see if you can get that C code to work

> Layout an MTR like board with the $5 Tiva processor.

I'd be interested to know why you suggest the Tiva which is an ARM Cortex M4, I've been thinking of doing something similar based on a Cortex M3

Colin G8TMV

--
Colin Tuckley | +44(0)1223 830814 | PGP/GnuPG Key Id
Debian Developer | +44(0)7799 143369 | 0x38C9D903

... All the world's a stage, and I missed rehearsal.

12257. Re: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-11 15:57:52 UTC
From: Tim W4YN
Topic: 12199 Message: 12257

Check out STM32-SDR project it maybe what you are looking for.
Tim W4YN

--- In AT_Sprint@yahoogroups.com, <jgaffke@...> wrote:
>
> I'd prefer something standalone and extremely low power, using a display and processor embedded in the rig. Not using a handheld PC. JT9 is 9 tone MFSK, one frequency at a time, so should work fine. Extremely slow, but could be handy as a last resort for getting a brief message through. Digital voice with Codec2 on HF uses the FDMDV modem which has 14 simultaneous QPSK carriers plus one BPSK carrier. So can't transmit it through the DDS, would require something like that SSB transmitter. The modems used with Codec2 at VHF/UHF are one frequency at a time, but consume much more bandwidth than we can use at HF.
> KE7ER
>

12258. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-11 16:18:31 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12258

The Tiva M4 has floating point in hardware. One could do these computations in fixed point, but floating point should make it much easier to port existing bodies of code. Given that this is ultimately supposed to be a trail rig and we have no firm idea of exactly what we might do with digital radio yet, I'd shoot for the cheapest and lowest power M4 we can find, which is the Tiva. When clocked an 1 MHz with all peripherals on, the data sheet shows it draws around 1 ma at 3.3v (as I recall). Around 30 ma at full throttle. Let us know what you think, I suspect you know considerably more than I about these computations on ARM processors.

Looks like Yahoo clipped my previous link to a mail forum in which codec2 on the Tiva was discussed, so I'll include the pertinent text here. Google for it, and there's plenty of other such material from the folks working on codec2. Sounds like porting codec2 to an M4 has already been done.

##########
Re: [Freetel-codec2] Tiva C Launchpad Shipping http://www.mail-archive.com/search?l=freetel-codec2@lists.sourceforge.net&q=subject:%22Re%3A+%5BFreetel-codec2%5D+Tiva+C+Launchpad+Shipping%22
Bruce Perens http://www.mail-archive.com/search?l=freetel-codec2@lists.sourceforge.net&q=from:%22Bruce+Perens%22 Thu, 25 Jul 2013 08:08:18 -0700
http://www.mail-archive.com/search?l=freetel-codec2@lists.sourceforge.net&q=date:20130725

I think it's worth trying for simplex. The build is similar enough to ST32F4
that it's easy to do. Andy Wood <andyw...@hotmail.com> wrote:
>The TI chip is an 80-MHz processor core - the STM32F4 only just works
>at 168MHz - around 80% CPU time - running duplex so I don't really
>think it would be worth trying...
>
>It would probably do Speex OK as the STM32 takes about 25% in duplex.
>
>Andy.
##########
Regarding my previous comment on dropping work on pskuc.c, the real reason is that algorithm development was fun, wading through somebody else's MSP430 assembler for several days was not. And there was pretty much zero interest expressed. And there were plenty of other things pressing to be done.

Jerry, KE7ER

---In at_sprint@yahoogroups.com, <colin@...> wrote:
I'd be interested to know why you suggest the Tiva which is an ARM Cortex M4, I've been thinking of doing something similar based on a Cortex M3

12259. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-11 16:43:44 UTC
From: <bubnikv@...>
Topic: 12199 Message: 12259

The pocketdigi source code is freely available. Anybody fluent in C language shall be able to port it to any platform. I don't have resources to do it myself.

The only thing special to pocketdigi / ATS or MTR is the way it commands the transceiver to do key on/off and to phase/frequency modulate the DDS. The protocol is relatively straightforward and anybody fluent in the C language shall be able to understand it from the pocketdigi source code.

If anyone wants to implement a simple standalone data terminal, he could use the pocketdigi sources to implement the transmit part. No special interface on receiving, just the audio cable.

73, Vojtech OK1IAK

12260. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-11 18:55:28 UTC
From: Steven Weber
Topic: 12199 Message: 12260

> I'd be interested to know why you suggest the Tiva which is an ARM
> Cortex M4, I've been thinking of doing something similar based on a
> Cortex M3

I know a guy who is having a rig designed which uses the Cortex M3 as the processor. If you ask me, serious over kill for the application. If and when that rig becomes available, maybe you guys can hack that rig to make it do crazy digital modes.

At the moment he can't get the keyer to work properly. There seems to be two problems - one, the programmer is trying to do it in "C" and two, the programmer, not being a Ham, doesn't understand how it's suppost to work.

The reason I know this is because he asked for my help with the keyer issue. Which I would have been glad to do, if I knew anything about programming in C, which I don't. The best I could do was make some timing diagrams and flow charts for him, but apparently the programmer still can't quite grasp the concept. Any C++ experts here in the group who might want to help him out?

Steve KD1JV

12261. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-11 19:09:40 UTC
From: Steven Weber
Topic: 12199 Message: 12261

eapest and lowest power M4 we can find, which is the Tiva. When clocked an 1 MHz with all peripherals on, the data sheet shows it draws around 1 ma at 3.3v (as I recall).

Clocked at 1 MHz, it would take weeks do processing of digital signals. If your looking to do DSP filtering and decoding and run a display, my guess is you'd have to clock it at a couple 100 MHz.

KD1JV

12262. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-11 19:27:59 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12262

I think "doesn't understand how it's supposed to work" is a bigger issue than coding in C.

Having figured out C and seeing that on a decent processor like the MSP430 I can get almost the same executable size and speed as in assembly, I'm not keen on figuring out a new assembly language for each processor I come to. If you look over the various projects for the MSP430 launchpad, you'll see they're all in C. An 8 bit machine like an AVR is different matter, C can work but assembly can be much tighter. I have no interest in C++, if I want abstraction I go to Python.

A Cortex M3 or M4 is not overkill if you want to do FFT's and such for digital radio.
The Tiva might not quite have the horsepower for some modes.
If you're just implementing a keyer and running a display and such, an Intel 4004 could do fine.

Anyways, build what pleases you. There is plenty of demand for more of these radios. But if you should ever find it getting old, there's lots of new directions to take it.

Jerry, KE7ER

---In at_sprint@yahoogroups.com, <steve.kd1jv@...> wrote:

I know a guy who is having a rig designed which uses the Cortex M3 as the processor. If you ask me, serious over kill for the application. If and when that rig becomes available, maybe you guys can hack that rig to make it do crazy digital modes.

At the moment he can't get the keyer to work properly. There seems to be two problems - one, the programmer is trying to do it in "C" and two, the programmer, not being a Ham, doesn't understand how it's suppost to work.

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Steve KD1JV

12263. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-11 19:52:52 UTC
From: Lee Hiers
Topic: 12199 Message: 12263

On Wed, Dec 11, 2013 at 1:55 PM, Steven Weber <steve.kd1jv@...> wrote:

The reason I know this is because he asked for my help with the keyer
> issue.
> Which I would have been glad to do, if I knew anything about programming
> in
> C, which I don't. The best I could do was make some timing diagrams and
> flow
> charts for him, but apparently the programmer still can't quite grasp the
> concept. Any C++ experts here in the group who might want to help him out?
>
I can't, other than to suggest that he look at some Arduino-based keyer
sketches - aren't those loosely C-based?? Something like the keyer at
blog.radioartisan.com should have the keyer code easily accessible.

But then, I can barely drive an Excel spreadsheet...

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

12264. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-11 20:46:13 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12264

Here's an interesting description of keying algorithms that might give him something to start from:
http://www.morsex.com/pubs/iambicmyth.pdf
And an introduction to the notion that not everybody wants the same keyer.

I suspect that for something like a keyer, the guy that creates it will have to use it a lot before it gets to be any good. So he should probably just borrow some C code off the web somewhere as Lee suggested. However, that radioartisan keyer has some serious feature creep that might get in the way:
http://blog.radioartisan.com/arduino-cw-keyer/

KE7ER

12265. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-12 06:34:20 UTC
From: <xv4y@...>
Topic: 12199 Message: 12265

Hi Jerry,

Not only the Tiva C (LM4F MCU) has enough horsepower to do so, but an I2PHD was working on some kind of "standalone SDR I/Q decoder" with a board from ST Micro (STM32F4) using FP maths.
He got something running but was not sharing the code.

Here some other project that could be ported to the LM4F by TI :
http://www.stm32-sdr.com/

I am doing audio FFT (integer maths) and spectrum display on the 20 MHz ATMega328 (source code fully available under GPL), so a 80MHz Cortex M3 or M4 can do it.
Here a "DSP work" for the Cortex M3 :
https://coactionos.com/projects/coactionos/wiki/FFT_on_the_ARM_Cortex_M3

The Cortex M4 on the Tiva board (and Stellaris) embed the Neon instructions (Vector Maths on floatting) and that gives even more power for DSP-like things. However there is a lot of coding to do in order to use it...

73,
Yan - XV4Y
---
http://xv4y.radioclub.asia/

---In AT_Sprint@yahoogroups.com, <jgaffke@...> wrote:

And perhaps the 80 MHz Tiva won't have the horsepower to do an FFT fast enough. But given my experience with pskuc.c, I'm pretty sure we could at least get something going on PSK31

Jerry, KE7ER

12266. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-12 10:00:16 UTC
From: Richard F5VJD
Topic: 12199 Message: 12266

Hello all

I don't know if I am alone on this, but I would like like to get back to the days when I understood what the posts to this site were talking about - we seem to be moving a long way from the 'simple' trail-friendly radios that Steve excels at.

If digital modes are what are pushing people's buttons at the moment, I for one would be delighted to see something like a modern version of Small Wonder's PSKxx radio to be be used with the AMQRP Club modem.

Just my 5 centimes worth...

73

Richard F5VJD

On 12/12/2013 07:34, xv4y@... wrote:
>
> Hi Jerry,
>
>
> Not only the Tiva C (LM4F MCU) has enough horsepower to do so, but
> an I2PHD was working on some kind of "standalone SDR I/Q decoder" with
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> The Cortex M4 on the Tiva board (and Stellaris) embed the Neon
> instructions (Vector Maths on floatting) and that gives even more
> power for DSP-like things. However there is a lot of coding to do in
> order to use it...

>
>
> 73,
> Yan - XV4Y
> ---
> http://xv4y.radioclub.asia/
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> ---In AT_Sprint@yahoogroups.com, <jgaffke@...> wrote:
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> And perhaps the 80 MHz Tiva won't have the horsepower to do an FFT
> fast enough. But given my experience with pskuc.c, I'm pretty sure we
> could at least get something going on PSK31
>
>
> Jerry, KE7ER
>
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>
>

12267. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-12 15:48:32 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12267

Yan,

Thanks for the pointers.
I may be corresponding with you directly if I ever find the time to play with this stuff.

Jerry, KE7ER

12268. MBDC on 15 meters and upper...

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-13 08:03:16 UTC
From: XV4Y
Topic: 12268 Message: 12268

Hi folks,

I know I know I know, the manual states that using the MBDC on theses bands is not recommend.
However I was planning to just build the RX part of the kit, but recently I decided that it was perhaps a "good idea" to experiment on the higher bands.
Has anyone tried to build the MTR for other bands than 160 and 80m?
What ever the answer is, I will try it on 40m and 15m (10?), but I'd like to share experience.

I've been playing with the chinese AD9850/AD9851 modules for some time and the quality is variable.
From the experience of G0UPL kits (using similar TX and PA topology), some OM have successfully built them even on 10m.
At that frequency, the "duty cycle" pot becomes very touchy, but that works and the "fried Bs170"/W ratio is reasonable.

73,
Yan.

Yannick DEVOS - XV4Y
http://xv4y.radioclub.asia/
http://varc.radioclub.asia/

12269. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-13 20:33:09 UTC
From: <careyfuller@...>
Topic: 12199 Message: 12269

Steve and everyone,

I just scanned through the recent posts and want to comment on the Santa's Wish LIst topic about possible new rigs:

In the past several months I've done many SOTA activations using my ATS3-B on 15M, as well 20M, 17M, 30M and 40M. With good solar flux, 15M is a great QRP portable band and the ATS3-B delivers solid performance! If a kit ATS-style radio were offered for several higher bands, I would jump to get one, even though these bands will not stay open indefinitely.

15M needs smaller, lighter antennas than 20M. The band is quiet, and DX is easy to hear. Being on a high summit with a 5W rig running on 15M when the band is open is a big thrill! I've had many QRP-QRP contacts on 15M, with strong signals and easy ragchew quality.

Here's my wish list for the ATS-type rigs:

1) Preserve the many virtues of the current rigs
2) At least 3 bands available, and be able to pick which 3, etc.
3) Protection or tolerance for poor SWR - not easy to do
4) One LED display
5) Some kind of low-profile tuning knob
6) Better AGC than the MTR has

7) One of the problems I now have on SOTA activations is that when I get a pile, I can't copy any caller because they saturate the audio in the ATS3-B, and the audio is all levelled. Sometimes I can't copy a letter until someone running an amp or whatever drops out. Only simple cure for this would be a receive RF gain control or button. This is a special problem, really a good problem to have - except it wastes time when conditions are difficult on the summit.

8) DSP might offer improved AGC, reduced noise, better audio, etc., but it's not worth it if power drain goes up much, or if it makes the rig too complex to develop. That's what the KX3 and K3 are there for, etc.

I have used a KX3 in the field, and it's awesome, but for actual hiking-climbing SOTA and backcountry camping I want my ATS rigs because they're light, they use less power, and they do a very good job on CW. Elecraft badly compromised the KX3 for serious portable work by making the case large enough for internal batteries, and poor batteries as well, instead of making it smaller and lighter and then offering various external battery options.

Digital modes are opening up a huge new frontier for portable work, and this is going somewhere for sure. I think we're better off with dedicated rigs for digital modes, rather than trying to make one rig do many different modes with various features.

Right now SOTA is expanding and getting more popular. There is actually a big potential market out there - but many of these customers already have KX3's, and that's fine. I think there is unserved demand out there. If Steve offered a rig that was somewhere between the

KX3 and the ATS3-B, ATS4, MTR, etc., he might sell many. Of course you don't want to over-supply the market, but right now I think people are buying other stuff like the Chinese QRP radios because they can't an ATS rig when they want to order one. Lots of QRP people haven't got time to be active in this group, etc,

The time to offer more kits is sooner rather than later, given the high sunspots and all the expansion of SOTA. There may be activity programs similar to SOTA - with broader appeal - that take off as well, before long.

Just my thoughts - I don't have a crystal ball.

I remain sincerely grateful for the experiences that I've had because of Steve's kits and what they have led to. Every time I set up on a Colorado mountain and start calling CQ on my ATS3-B or my MTR, I remember how Steve's hard work and creativity have opened up this corner of the hobby for so many of us!

72/73

George Carey Fuller
KX0R

12270. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-13 22:48:25 UTC
From: wmorrill@...
Topic: 12199 Message: 12270

George- I certainly agree with your post. Complex mode stuff that requires cellphone access is of no use in most SOTA sites in MT.
Wendell N7WM

> Steve and everyone,
>
>
> I just scanned through the recent posts and want to comment on the
> Santa's Wish LIst topic about possible new rigs:
>
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> 72/73
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>
> George Carey Fuller

> KX0R
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12271. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-13 22:58:08 UTC
From: Heilman, William Clay
Topic: 12199 Message: 12271

I am a bit selfish on the digital to smart phone idea to grab scout interest.

Clayton Heilman
Ke7ngo

The world is run by those who show up.

On Dec 13, 2013, at 15:48, "wmorrill@...<mailto:wmorrill@...>"
<wmorrill@...<mailto:wmorrill@...>> wrote:

George- I certainly agree with your post. Complex mode stuff that
requires cellphone access is of no use in most SOTA sites in MT.
Wendell N7WM

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12272. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-13 23:14:30 UTC
From: <srmaietta@...>
Topic: 12199 Message: 12272

""If Steve offered a rig that was somewhere between the KX3 and the ATS3-B, ATS4, MTR, etc., he might sell many.""

He did (does) PFR-3!!

~Steve
W2STV

12273. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-14 01:32:53 UTC
From: Steven Weber
Topic: 12199 Message: 12273

The main problem with so called "Digital" modes is that they are designed to operate with analog, SSB rigs!

When you have to control frequency, phase and amplitude for some of these modes, it gets a bit complicated. Easier just to make a SSB rig so the interface is just audio.

To make a truely stand alone digital mode rig would take some serious R+D effort. Maybe I should just hole up for the winter and try to learn C. In a couple of years, I might be proficent enough to make something useful. I should live that long, hi

Steve KD1JV

I am a bit selfish on the digital to smart phone idea to grab scout interest.

12274. RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-14 07:36:51 UTC
From: <jgaffke@...>
Topic: 12199 Message: 12274

If C is hanging you up, I'd be happy to help you with a gentle introduction. Once you figure out C, you can pretty much forget about having to learn new assembly languages. And figuring out C is easier than learning a new assembly language.

Vojtech's Pocketdigi is still viable if anyone has the inclination to port it to a currently available device. It does well enough within the receive bandwidth and single tone transmit limitations of the ATS/MTR rigs. But I'd still like to see a standalone rig drawing minimal power that can do digital modes. An MTR with a Tiva instead of an MSP430 plus a DOGM display should be about all that's needed to do that. For low power consumption, the DDS driving a non linear final has some real advantages over an SSB rig.

I've heard the DOGM occasionally had trouble on the ATS4. Exactly how was it failing? Could that be addressed somehow?

Jerry, KE7ER

12275. Re: [AT_Sprint] RE: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-14 13:18:16 UTC
From: Kevin Kleinfelter
Topic: 12199 Message: 12275

C is closer to assembly language than most other high level languages.
Shucks. Compared to some assembly languages, "K&R" C is a lower-level
language.
Kevin / K4KPK

On Sat, Dec 14, 2013 at 2:36 AM, <jgaffke@...> wrote:

>
>
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> introduction. Once you figure out C, you can pretty much forget about
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>
>

12276. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-14 13:46:48 UTC
From: Kevin Kleinfelter
Topic: 12199 Message: 12276

The PFR-3 conveniently offers the features of the AT_Sprint series in a package the size of the KX3. I'd bet that srmaietta was hoping for the other way around.

That being said, the PFR-3 offers a *very* nice feature set for a QRP CW trail radio, and it isn't much bigger than an MTR plus a tuner. I wonder what it would look like if if were updated to deliver similar features but take advantage of technology improvements and learnings in the years since it was designed?
Kevin / K4KPK

On Fri, Dec 13, 2013 at 6:14 PM, <srmaietta@...> wrote:

>
>
> ""If Steve offered a rig that was somewhere between the KX3 and the
> ATS3-B, ATS4, MTR, etc., he might sell many.""
>
>
>
> He did (does) PFR-3!!
>
>
> ~Steve
>
> W2STV
>
>
>

12277. Re: New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-14 15:05:04 UTC
From: Tim W4YN
Topic: 12199 Message: 12277

I am a big proponent of ats series however I recently built the stm32-Sdr rig which decodes and sends Psk via lcd tft touch screen. It uses any of the softrock type transceivers along with the STM/LCD module. No PC needed. Now if something similar with all on one PC board was available that would be the ticket if digital modes are your passion.
Tim

--- In AT_Sprint@yahoogroups.com, <jgaffke@...> wrote:
>
> I'd prefer something standalone and extremely low power, using a display and processor embedded in the rig. Not using a handheld PC. JT9 is 9 tone MFSK, one frequency at a time, so should work fine. Extremely slow, but could be handy as a last resort for getting a brief message through. Digital voice with Codec2 on HF uses the FDMDV modem which has 14 simultaneous QPSK carriers plus one BPSK carrier. So can't transmit it through the DDS, would require something like that SSB transmitter. The modems used with Codec2 at VHF/UHF are one frequency at a time, but consume much more bandwidth than we can use at HF.
> KE7ER
>

12278. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-14 16:34:46 UTC
From: Steve Maietta
Topic: 12199 Message: 12278

srmaietta (me) wasn't hoping for KX3 in an ATSprint package. The desire to miniaturize can be taken too far in my opinion. I know what the PFR is -a unique member of the ATS/MTR family with the same architecture, IC's, PA, UI scheme, etc. in a big-bird enclosure with a few features to make it more of a stand alone trail radio solution. I enjoy the simplicity of Weber's ATS family, no KX3 for me thanks!!

Although I am enjoying the discussion about a digi-modes trail radio, a very interesting concept indeed!! I can imagine using my phone as a simplified waterfall display, a voice to text converter (no keyboard needed) and then the small Weber rig is the TRXcvr.
~Steve W2STV

On Saturday, December 14, 2013 10:01 AM, Kevin Kleinfelter <kleinfelter.groups@...> wrote:

The PFR-3 conveniently offers the features of the AT_Sprint series in a package the size of the KX3. I'd bet that srmaietta was hoping for the other way around.

That being said, the PFR-3 offers a *very* nice feature set for a QRP CW trail radio, and it isn't much bigger than an MTR plus a tuner. I wonder what it would look like if if were updated to deliver similar features but take advantage of technology improvements and learnings in the years since it was designed?

Kevin / K4KPK

On Fri, Dec 13, 2013 at 6:14 PM, <srmaietta@...> wrote:

>
>""If Steve offered a rig that was somewhere between the KX3 and the ATS3-B, ATS4, MTR, etc., he might sell many.""
>
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>
>
> He did (does) PFR-3!!
>
>
>~Steve
>W2STV

12279. Re: [AT_Sprint] New rig for Santa's, er, Steve's wish list

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-14 21:18:30 UTC
From: Oleh Kernytskyy
Topic: 12199 Message: 12279

I prefer more bands for ATS or MTR - 28,24,21,18, and 14 MHz.

73! Oleh
KD7WPJ

On Saturday, December 14, 2013 8:35 AM, Steve Maietta <srmaietta@...> wrote:

srmaietta (me) wasn't hoping for KX3 in an ATSprint package. The desire to miniaturize can be taken too far in my opinion. I know what the PFR is -a unique member of the ATS/MTR family with the same architecture, IC's, PA, UI scheme, etc. in a big-bird enclosure with a few features to make it more of a stand alone trail radio solution. I enjoy the simplicity of Weber's ATS family, no KX3 for me thanks!!

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Kevin / K4KPK

On Fri, Dec 13, 2013 at 6:14 PM, <srmaietta@...m> wrote:

>
>""If Steve offered a rig that was somewhere between the KX3 and the ATS3-B, ATS4, MTR, etc., he might sell many.""
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>~Steve
>W2STV

12280. MTR 40M output low

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-17 17:36:14 UTC
From: cloud runner
Topic: 12280 Message: 12280

Built my MTR (first version) for 20 and 30 meters, and have used it with great results for a some time. Output on each band exceeded 5 watts. I found from experience that I all stations worked on 30 could have also been worked on 20M. In other wrods, the skip zone on 20 and 30 has been very similar.

so I decided to change the second band to 40 meters. I am not getting the expected output. I am getting about 1.5 watts out with 11.5 volts, just about one watt at 9.5 volts.

I have carefully double checked the number of turns on the toroids, T50-2, 16 and 19 turns. Continuity shows zero point zero ohms across the coils after installation. I have carefully checked the capacitors. They are as in the manual, C47 and C57 are 331's, C52 and C66 are 681 and 68p. I pulled and measured C66, and it is indeed 68p.

Compressing or spreading turns on the toroid has almost no effect.

Have I missed a modification?

Suggestions???

73 Fred - kt5x

12281. RE: MTR 40M output low

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-17 18:04:53 UTC
From: <jgaffke@...>
Topic: 12280 Message: 12281

I suggest you look at messages 10988, 11071, 11077, and 11294. Not sure any of that pertains to your particular problem (assuming the rig is telling you it really is running on 40M), but you should be aware of it all before hacking into stuff. In particular, message 10988 recommends a change to the 40M sense resistor, otherwise the rig might think it is running on 80M. And 11071 shows confusion between the schematics and the build instructions on reference designators for the RX filter inductors. And obviously enough, make sure you count those coil turns correctly, a trip through the middle counts as a turn. If you have access to a capacitance meter, you might try lifting a coil wire or two and then measure the TX filter caps (without removing them from the board).

Good luck!
Jerry, KE7ER

---In AT_Sprint@yahoogroups.com, <just.one.hill@...> wrote: so I decided to change the second band to 40 meters. I am not getting the expected output.

12282. RE: [AT_Sprint] MTR 40M output low

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-17 19:47:44 UTC
From: Dale Putnam
Topic: 12280 Message: 12282

HI Fred, Is it possible, and I ask, because I found out on my own..... don't ask.. way too long to go into here... but is it possible.. that the parts on the bottom of the boarddon't necessarily match the switch positions on the top of the board? Maybe a quick check with an ohmeter would prove it. (don't know about you, ,but I have and ohmmeter... and an ohmeter.. the first one reads resistance.. and the second one reads my personal learning resistance..... as in "OOoooooHHH... now I got it!")

Have a great day,

--... ...--
Dale - WC7S in Wy

To: AT_Sprint@yahoogroups.com
From: just.one.hill@...
Date: Tue, 17 Dec 2013 10:36:14 -0700
Subject: [AT_Sprint] MTR 40M output low

Built my MTR (first version) for 20 and 30 meters, and
have used it with great results for a some time. Output on each band
exceeded 5 watts. I found from experience that I all stations worked on 30
could have also been worked on 20M. In other wrods, the skip zone on 20
and 30 has been very similar.

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I am not getting the expected output. I am getting about 1.5 watts out
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across the coils after installation. I have carefully checked the
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68p.

Compressing or spreading turns on the toroid has almost no
effect.

Have I missed a modification?

Suggestions???

73 Fred - kt5x

12283. Re:: MTR 40M output low

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-17 20:00:19 UTC
From: cloud runner
Topic: 12283 Message: 12283

Guess not. the 100K across the 47K resistor puts the radio on 30M.

fred

----- Original Message -----
From: jgaffke@...
To: AT_Sprint@yahoogroups.com
Sent: Tuesday, December 17, 2013 11:04 AM
Subject: [AT_Sprint] RE: MTR 40M output low

I suggest you look at messages 10988, 11071, 11077, and 11294. Not sure any of that pertains to your particular problem (assuming the rig is telling you it really is running on 40M), but you should be aware of it all before hacking into stuff. In particular, message 10988 recommends a change to the 40M sense resistor, otherwise the rig might think it is running on 80M. And 11071 shows confusion between the schematics and the build instructions on reference designators for the RX filter inductors. And obviously enough, make sure you count those coil turns correctly, a trip through the middle counts as a turn. If you have access to a capacitance meter, you might try lifting a coil wire or two and then measure the TX filter caps (without removing them from the board).

Good luck!
Jerry, KE7ER

---In AT_Sprint@yahoogroups.com, <just.one.hill@...> wrote:
so I decided to change the second band to 40 meters. I am not getting the expected output.

12284. Re:: MTR 40M output low

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-17 21:30:13 UTC
From: <jgaffke@...>
Topic: 12283 Message: 12284

Hmm, Maybe you have different firmware loaded, there was some out there from VK2DDJ as mentioned in message 9267 that was adjusted to work with the original resistor values. Or maybe I remembered incorrectly. But there seemed to be consensus at the time that the notes in message 10988 were correct.

Jerry, KE7ER

---In AT_Sprint@{{emailDomain}}, <just.one.hill@...> wrote:

☐ Guess not. the 100K across the 47K resistor puts the radio on 30M.

fred

----- Original Message -----
From: jgaffke@... mailto:jgaffke@...
To: AT_Sprint@yahoogroups.com mailto:AT_Sprint@yahoogroups.com
Sent: Tuesday, December 17, 2013 11:04 AM
Subject: [AT_Sprint] RE: MTR 40M output low

I suggest you look at messages 10988, 11071, 11077, and 11294. Not sure any of that pertains to your particular problem (assuming the rig is telling you it really is running on 40M), but you should be aware of it all before hacking into stuff. In particular, message 10988 recommends a change to the 40M sense resistor, otherwise the rig might think it is running on 80M. And 11071 shows confusion between the schematics and the build instructions on reference designators for the RX filter inductors. And obviously enough, make sure you count those coil turns correctly, a trip through the middle counts as a turn. If you have access to a capacitance meter, you might try lifting a coil wire or two and then measure the TX filter caps (without removing them from the board).

Good luck!
Jerry, KE7ER

---In AT_Sprint@yahoogroups.com, <just.one.hill@...> wrote: so I decided to change the second band to 40 meters. I am not getting the expected output.

12285. FS: ATS-3B

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-23 00:08:19 UTC
From: <nz8j@...>
Topic: 12285 Message: 12285

Excellent condition, works great. Radio, 6 modules, power cord.
$195 shipped and insured via priority mail in the US.
Paypal or US Postal Money Order.
Thanks
Tim
NZ8J

12286. ATS-3B Sold

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-23 02:08:59 UTC
From: <nz8j@...>
Topic: 12286 Message: 12286

Thanks to all and Merry Christmas
Tim
NZ8J

12287. MTR for sale

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-23 04:58:09 UTC
From: Paul Womble
Topic: 9363 Message: 12287

Hate to keep this great rig and not use it much so I offer for sale.
All in excellent condition.

MTR #234 for 20m & 40m (from latest run of kits) built by W0EA.

1 Turnigy LiPo 1000mAH battery

1 Te-Ne-Ke with cable (no base)

Battery cables for the LiPo pack and 9V pack.

$350 including USPS Priority Mail shipping

Paul K4FB

12288. What variable capacitor is in the Altoids Longwire Antenna Tuner???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-27 16:02:00 UTC
From: <af8f@...>
Topic: 12288 Message: 12288

I damaged the variable capacitor in my Altoids Longwire Antenna Tuner.

Does anyone know what model it is, or how I can order a new one?

Thank you for your help.

AF8F

12289. Re: [AT_Sprint] What variable capacitor is in the Altoids Longwire Antenna Tuner???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-27 18:51:18 UTC
From: Steven Weber
Topic: 12288 Message: 12289

Doug might still sell a package of 4 on the qrpkits web site. If not, go buy a cheap AM/FM radio from the popular department store for $5 (yes, they still sell these) and pull one out of there.

Steve KD1JV

I damaged the variable capacitor in my Altoids Longwire Antenna Tuner.

Does anyone know what model it is, or how I can order a new one?

Thank you for your help.

AF8F

12290. Re: [AT_Sprint] What variable capacitor is in the Altoids Longwire Antenna Tuner???

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-27 22:33:43 UTC
From: <af8f@...>
Topic: 12288 Message: 12290

Right you are. Just ordered them.

Thank you so much.

12291. What to do with the extra DDS and LCD modules

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-30 16:15:56 UTC
From: <fretjock@...>
Topic: 12291 Message: 12291

When the 160 mtr was first proposed I ordered a couple DDS and LCD modules in anticipation of Steve's kit release. Now I'm left with extras and was wondering if anyone has plans for what to do with them. A signal generator or VFO seem likely projects but they would require a controller and software to implement.
I know they were cheap but I hate to let an good chip go to waste. Any circuits or ideas?

Bill, WV1N

12292. Re: [AT_Sprint] What to do with the extra DDS and LCD modules

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-30 18:04:14 UTC
From: Lee Hiers
Topic: 12291 Message: 12292

Signal generators and VFOs, yes. I'm working up one of the modules now as a Drake FS4 replacement to turn my R4 into a general coverage receiver.

I'm using one of the Arduino Mini Pros available on eBay from China for around 5 bucks. If you go with the Mini Pro, it's not programmable without either another Arduino or a USB converter of some sort. So, you could get a Chinese Arduino Uno clone off eBay for around 10 or 12 bucks I think. There is software out there you can Google up for controlling the DDS modules from Arduino....I found it pretty easy to adapt for my needs.

73 de Lee
--
Lee Hiers, AA4GA
www.aa4ga.com

Submit your QRP DXCC totals to www.qrpdx.com!

On Mon, Dec 30, 2013 at 11:15 AM, <fretjock@...> wrote:

>
>
> When the 160 mtr was first proposed I ordered a couple DDS and LCD
> modules in anticipation of Steve's kit release. Now I'm left with extras
> and was wondering if anyone has plans for what to do with them. A signal
> generator or VFO seem likely projects but they would require a controller
> and software to implement.
> I know they were cheap but I hate to let an good chip go to waste. Any
> circuits or ideas?
>
> Bill, WV1N
>
>

12293. Re: [AT_Sprint] What to do with the extra DDS and LCD modules

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-30 19:20:56 UTC
From: Steven Weber
Topic: 12291 Message: 12293

If you didn't return the original processor I supplied with the kit, you could use that :)

I also have firmware on my web site (http://kd1jv.qrpradio.com) which can be load into an Atmel XMEGA demo board which costs about $30 to make a "universal" VFO or signal generator. The board has it's own LCD display installed on it, so you won't need the 2 liner. The board is also programmed via a USB port.

Steve KD1JV

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Bill, WV1N

12294. Re: [AT_Sprint] What to do with the extra DDS and LCD modules

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-30 19:36:44 UTC
From: Johnny Matlock
Topic: 12291 Message: 12294

Ga Steve:
I cant seem to get a hit on that number at Digi key
Has it changed?
Thanks 72
Johnny AC0BQ

On Monday, December 30, 2013, Steven Weber wrote:

>
>
>
> If you didn't return the original processor I supplied with the kit, you
> could use that :)
>
> I also have firmware on my web site (http://kd1jv.qrpradio.com) which
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>
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> Bill, WV1N
>
>
>

--
QRP....."more smiles per watt"

12295. Re: [AT_Sprint] What to do with the extra DDS and LCD modules

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-30 20:49:12 UTC
From: Steven Weber
Topic: 12291 Message: 12295

The Atmel number is XMEGA-A3BU XPLAINED. Digi-Key part # ATXMEGAA3BU-XPLD-ND
----- Original Message -----
From: Johnny Matlock
To: AT_Sprint@yahoogroups.com
Sent: Monday, December 30, 2013 2:36 PM
Subject: Re: [AT_Sprint] What to do with the extra DDS and LCD modules

Ga Steve:
I cant seem to get a hit on that number at Digi key
Has it changed?
Thanks 72
Johnny AC0BQ

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Bill, WV1N

--

QRP....."more smiles per watt"

12296. Re: [AT_Sprint] What to do with the extra DDS and LCD modules

Yahoo group: AT_Sprint (2012 — 2013)
Date: 2013-12-30 20:57:03 UTC
From: Johnny Matlock
Topic: 12291 Message: 12296

Tnx

On Monday, December 30, 2013, Steven Weber wrote:

>
>
> The Atmel number is XMEGA-A3BU XPLAINED. Digi-Key part #
> ATXMEGAA3BU-XPLD-ND
>
> ----- Original Message -----
> *From:* Johnny Matlock <javascript:_e({}, 'cvml', 'jomatlock@...');>
> *To:* AT_Sprint@yahoogroups.com <javascript:_e({}, 'cvml',
> 'AT_Sprint@yahoogroups.com');>
> *Sent:* Monday, December 30, 2013 2:36 PM
> *Subject:* Re: [AT_Sprint] What to do with the extra DDS and LCD modules
>
> Ga Steve:
> I cant seem to get a hit on that number at Digi key
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> Thanks 72
> Johnny AC0BQ
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>> Bill, WV1N
>>
>>
>
> --
> QRP....."more smiles per watt"
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>
>

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QRP....."more smiles per watt"
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